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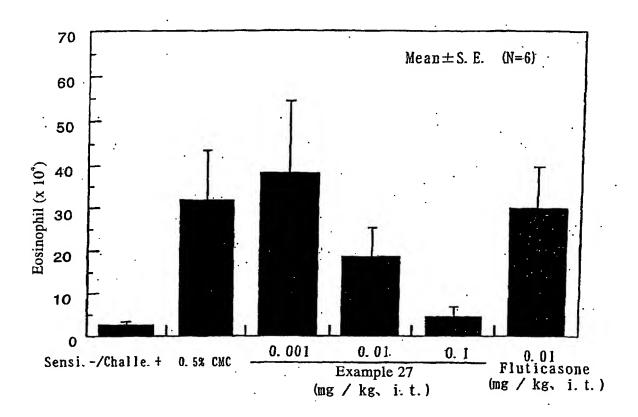
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#### (54) **NOVEL ADENINE DERIVATIVES**

(57) This invention relates to an adenine derivative, a tautomer thereof, or a pharmaceutically acceptable salt thereof represented by general formula (I):

wherein X represents NR³ (wherein R³ represents a hydrogen atom or  $C_{1-3}$  alkyl) or the like; R¹ represents substituted or unsubstituted alkyl or the like; R² represents hydroxyl or the like; and Y represents a substituted or unsubstituted aromatic hetero ring or the like. Also, the present invention relates to pharmaceuticals such as an interferon inducer, antiviral agent, anticancer agent, type 2 helper T cell selective immune response inhibitor, antiallergic agent, and immune response modulator comprising the above derivative as an active ingredient.

Fig. 1



#### Description

#### Technical Field

[0001] The present invention relates to an adenine derivative that is useful for preventing or treating viral diseases such as hepatitis B, hepatitis C, or AIDS, cancerous diseases, or the like. Also, the present invention relates to a pharmaceutical preparation such as an interferon inducer, antiviral agent, anticancer agent, type 2 helper T cell-selective immune response inhibitor, antiallergic agent, or immune response modulator comprising the above derivative as an active ingredient.

#### Background Art

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[0002] Interferon is one of the most important factors that are in charge of phylaxis or immune modulation. It has been already put to practical use as a therapeutic agent for hepatitis B and C and an immunotherapeutic agent for cancer. In particular, interferon is practically the only therapeutic agent available for hepatitis C. Interferon is a polypeptide having a molecular weight of about 20,000. It is produced by gene recombination or cell culture, and it can be administered only in the form of injection. What is desired is, accordingly, the development of an interferon inducer that can be orally administered.

[0003] Examples of known substances having interferon-inducing activity include double-stranded nucleic acids derived from viruses or other living organisms and high molecular weight polymers such as Poly(I)/Poly(C) or polycarboxylate. Doublestranded nucleic acids or high molecular weight polymers, however, are problematic in, for example, antigenicity, contamination by pathogenic microorganisms or biological stability. In addition, since they has a high molecular weight, development of oral preparations therefrom is difficult. Several substances, such as fluorenones, pyrimidinones, or anthraquinones have been examined as low molecular weight interferon-inducing substances (Mayer, G. D., et al.: Science, 1970, 169, 1214, Nichol, F. R. et al.: Antimicrob. Agents Chemother., 1976, 9, 433, Stringfellow, D.A., et al.: Antimicrob. Agents Chemother., 1991, 15, 111). Because of their low therapeutic effect or toxicity, however, development of pharmaceutical preparations therefrom was relinquished (Reiter, M.A., et al.: J. Leukocyte Biol. 1994, 55, 234). An imidazoquinoline derivative, R-837 (Imiquimod), is known as another low molecular weight interferon-inducing substance (EP 145,340). R-837, however, has low interferon-inducing activity, and the development thereof in the field of oral preparations was no longer performed due to its side effects. The present inventors also found that a specific purine derivative had interferon-inducing activity (WO 99-28321). Since these compounds had low water-solubility, they were not sufficient in terms of gastrointestinal absorption.

[0004] In contrast, helper T cells play major roles in immune responses. There are two types of helper T cells, i.e., Th1 cells and Th2 cells. Examples of cytokines produced upon the activation of Th1 cells are interleukin-2 (IL-2) and interferon-γ (IFN-γ). Examples of cytokines produced from Th2 cells are interleukin-4 (IL-4) and interleukin-5 (IL-5). Th1 cytokines activate macrophages, natural killer cells, or the like, and they are known to be mainly involved with cellular immunity such as phylaxis against viruses or bacteria. Th2 cytokines are involved with humoral immunity such as antibody production from B cells. In particular, IL-4 induces B cells to produce IgE antibodies and has actions of Th2 cell differentiation or proliferation. IL-5 is capable of activating eosinocytes, accelerating differentiation or proliferation, life lengthening, or the like. Accordingly, it often plays a major role in allergic inflammation. In fact, these Th2 cytokines are increased in lesions of patients having allergic inflammation such as asthma or atopic dermatitis with which Th2 cells are mainly involved. Steroid drugs are often used to treat these diseases. However, chronic administration of steroid drugs disadvantageously generates a variety of side effects such as diabetes, osteoporosis, adrenal disorder, or moon face. Since steroid drugs inhibitorily act against both T cells, i.e., Th1 cells and Th2 cells, they may cause infectious diseases as a result of inhibiting Th1 cells. Accordingly, pharmaceuticals that can selectively inhibit Th2 immune responses can be safe therapeutic agents for allergic diseases without causing infectious diseases.

#### Disclosure of the Invention

[0005] An object of the present invention is to provide a low molecular weight compound with improved physical properties (such as solubility or pharmacokinetics) that are effective for preventing or treating viral diseases such as hepatitis B, hepatitis C, or AIDS, cancerous diseases, and diseases resulting from type 2 helper-T cells and that can be orally administered.

[0006] Under the above circumstances, the present inventors have conducted concentrated studies. As a result, they found that an adenine derivative with a specific structure had excellent interferon-inducing activity, type 2 helper T-cell-selective immune response inhibitory activity, and excellent physical properties. This has led to the completion of the present invention.

[0007] More specifically, the present invention includes the following.

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(1) An adenine derivative, a tautomer thereof, or a pharmaceutically acceptable salt thereof represented by general formula (I):

wherein X represents NR³ (wherein R³ represents a hydrogen atom or  $C_{1-3}$  alkyl), an oxygen atom, or a sulfur atom; R¹ represents substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; R² represents hydroxyl, mercapto,  $C_{1-8}$  acyloxy, or  $C_{2-8}$  alkoxycarbonyloxy; and Y represents a substituted or unsubstituted naphthalene ring, a substituted or unsubstituted 5- or 6-membered monocyclic aromatic hetero ring containing 1 or 2 hetero atoms selected from the group consisting of nitrogen, oxygen, and sulfur atoms, or a substituted or unsubstituted fused bicyclic aromatic hetero ring containing 1 or 2 hetero atoms selected from the group consisting of nitrogen, oxygen, and sulfur atoms.

- (2) The compound according to (1) above, wherein, in general formula (I),  $R^1$  represents  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkynyl,  $C_{2-8}$  alkoxyalkyl,  $C_{1-8}$  hydroxyalkyl, aryl, heteroaryl, aralkyl, or heteroarylalkyl.
- (3) The compound according to (1) or (2) above, wherein, in general formula (I), R1 represents C1-6 alkyl.
- (4) The compound according to any of (1) to (3) above, wherein, in general formula (I), X represents NH.
- (5) The compound according to any of (1) to (3) above, wherein, in general formula (I), X represents an oxygen atom.
- (6) The compound according to any of (1) to (5) above, wherein, in general formula (I), Y represents a unsubstituted or substituted pyridine ring or a substituted or unsubstituted pyrazine ring.
- (7) The compound according to any of (1) to (5) above, wherein, in general formula (I), Y represents a unsubstituted or substituted naphthalene ring or a substituted or unsubstituted thiophene ring.
- (8) The compound according to any of (1) to (6) above, wherein, in general formula (I), Y has 1 to 4 substituents when Y is a pyridine ring, and 1 to 3 substituents when Y is a pyrazine ring at any positions, wherein the substituent is selected from the group consisting of  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy, hydroxyl, mercapto,  $C_{1-4}$  alkylthio, a halogen atom, amino,  $C_{2-8}$  dialkylamino,  $C_{1-4}$  monoalkylamino, pyrrolidinyl, piperidino, and morpholino.
- (9) The compound according to any of (1) to (6) and (8) above, wherein, in general formula (I), Y represents a pyridine ring which may have a substituent selected from the group consisting of  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy, hydroxyl, mercapto,  $C_{1-4}$  alkylthio, a halogen atom, amino,  $C_{2-8}$  dialkylamino,  $C_{1-4}$  monoalkylamino, pyrrolidinyl, piperidino, and morpholino;  $R^1$  represents  $C_{1-6}$  alkyl; and  $R^2$  represents hydroxyl.
- (10) The compound according to (9) above, wherein X represents NH or an oxygen atom.
- (11) A pharmaceutical comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (12) An interferon inducer comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (13) An antiviral agent comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (14) An anticancer agent comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (15) A type 2 helper T cell selective immune response inhibitor comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (16) An antiallergic agent comprising, as an active ingredient, the compound according to any of (1) to (10) above.
- (17) An immune response modulator comprising, as an active ingredient, the compound according to any of (1) to (10) above.

[0008] The compounds according to the present invention are hereafter described in detail.

**[0009]** In general formula (I), alkyl, alkenyl, or alkynyl represented by  $R^1$  is preferably  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl, or  $C_{2-8}$  alkynyl. Further, examples of substituents of alkyl, alkenyl, or alkynyl represented by  $R^1$  include hydroxyl,  $C_{1-8}$  alkoxy, aryl, heteroaryl, and a halogen atom (e.g., chlorine, fluorine, bromine, or iodine). Particularly preferable examples of substituted alkyl, alkenyl, or alkynyl represented by  $R^1$  include  $C_{2-8}$  alkoxyalkyl,  $C_{1-8}$  hydroxyalkyl, aralkyl, and heteroarylalkyl.

**[0010]** Examples of the aforementioned C<sub>1-8</sub> alkyl include methyl, ethyl, 1-propyl, 2-propyl, 1-butyl, 2-butyl, 1-pentyl, 2-pentyl, 1-hexyl, 2-hexyl, 1-heptyl, 2-heptyl, 3-heptyl, octyl, 2-methylpropyl, 2-methylbutyl, 3-methylbutyl, 2-methylpentyl, 3-methylpentyl, 4-methylpentyl, methylhexyl, methylhexyl, 1,1-dimethylethyl, 1,1-dimethylpropyl, 2-ethylhexyl,

cyclopentylmethyl, cyclohexylmethyl, cyclopropyl, cyclobutyl, cyclopentyl, methylcyclopentyl, cyclohexyl, methylcyclohexyl, cyclohexyl, and cyclooctyl.

[0011] Examples of the aforementioned C<sub>2-8</sub> alkenyl include vinyl, allyl, crotyl, 1-propenyl, cyclopentenyl, cyclopentadienyl, and cyclohexenyl.

[0012] Examples of the aforementioned C<sub>2-8</sub> alkynyl include ethynyl, propynyl, and butynyl.

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[0013] Examples of the aforementioned C<sub>1-8</sub> hydroxyalkyl include 1-hydroxyethyl, 2-hydroxyethyl, 1-hydroxypropyl, 2-hydroxypropyl, 3-hydroxypropyl, 1-hydroxybutyl, 2-hydroxybutyl, 3-hydroxybutyl, and 4-hydroxybutyl.

[0014] Examples of the aforementioned aralkyl include benzyl, 1-phenethyl, 2-phenethyl, phenylpropyl, and phenylbutyl.

[0015] Examples of the aforementioned heteroarylalkyl include 4-pyridylmethyl and 3-pyri dylmethyl.

[0016] Examples of the aforementioned C<sub>2-8</sub> alkoxyalkyl include methoxymethyl, 2-methoxyethyl, 3-methoxypropyl, 4-methoxybutyl, ethoxymethyl, 2-ethoxyethyl, and 3-ethoxypropyl.

[0017] Each of the aforementioned substituents represented by R<sup>1</sup> may have a substituent such as alkyl, hydroxyl, mercapto, a halogen atom, amino, or alkoxy.

[0018] In general formula (I), examples of aryl or heteroaryl represented by R¹ include phenyl, 1-naphthyl, 2-naphthyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrazinyl, 3-pyrazinyl, 2-pyrimidinyl, 4-pyrimidinyl, 5-pyrimidinyl, 2-furyl, 3-furyl, 2-thienyl, and 3-thienyl. The aforementioned aryl or heteroaryl may or may not have a substituent. Examples of substituents include  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy, hydroxyl, mercapto,  $C_{1-4}$  alkylthio, a halogen atom, amino,  $C_{2-8}$  dialkylamino,  $C_{1-4}$  monoalkylamino, and methylenedioxy. Examples of the aforementioned  $C_{1-4}$  alkyl include methyl, ethyl, 1-propyl, 2-propyl, 1-butyl, and 2-butyl. Examples of  $C_{1-4}$  alkoxy include methoxy, ethoxy, 1-propoxy, 2-propoxy, 1-butoxy, and 2-butoxy. Examples of the aforementioned  $C_{2-8}$  dialkylamino include dimethylamino, diethylamino, dipropylamino, dibutylamino, ethylmethylamino, and methylpropylamino. Examples of the aforementioned  $C_{1-4}$  monoalkylamino include methylamino, ethylamino, propylamino, and butylamino. Examples of the aforementioned  $C_{1-4}$  alkylthio include methylthio, ethylthio, 1-propylthio, 2-propylthio, 1-butylthio, 2-butylthio, and t-butylthio. Examples of the aforementioned halogen atom include fluorine, chlorine, and bromine.

[0019] Examples of aryl or heteroaryl represented by R1 having a substituent include 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 2-ethylphenyl, 3-ethylphenyl, 4-ethylphenyl, 2-propylphenyl, 3-propylphenyl, 4-propylphenyl, 2-isopropylphenyl, 3-isopropylphenyl, 4-isopropylphenyl, 2-butylphenyl, 3-butylphenyl, 4-butylphenyl, 2-chlorophenyl, 3-chlorophenyl, 4-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 2-methoxyphenyl, 3-methoxyphenyl, 4-methoxyphenyl, 2-ethoxyphenyl, 3-ethoxyphenyl, 4-ethoxyphenyl, 2-propoxyphenyl, 3-propoxyphenyl, 4-propoxyphenyl, 2-isopropoxyphenyl, 3-isopropoxyphenyl, 4-isopropoxyphenyl, 2-butoxyphenyl, 3-butoxyphenyl, 4-butoxyphenyl, 4-butoxyph nyl, 2-methylaminophenyl, 3-methylaminophenyl, 4-methylaminophenyl, 2-ethylaminophenyl, 3-ethylaminophenyl, 4-ethylaminophenyl, 2-propylaminophenyl, 3-propylaminophenyl, 4-propylaminophenyl, 2-isopropylaminophenyl, 3-isopropylaminophenyl, 4-isopropylaminophenyl, 2-butylaminophenyl, 3-butylaminophenyl, 4-butylaminophenyl, 2-dimethylaminophenyl, 3-dimethylaminophenyl, 4-dimethylaminophenyl, 2-diethylaminophenyl, 3-diethylaminophenyl nyl, 4-diethylaminophenyl, 2-dipropylaminophenyl, 3-dipropylaminophenyl, 4-dipropylaminophenyl, 2-dibutylaminophenyl, 3-dibutylaminophenyl, 4-dibutylaminophenyl, 2-ethylmethylaminophenyl, 3-ethylmethylaminophenyl, 4-ethylmethylaminophenyl, 2-methylthiophenyl, 3-methylthiophenyl, 4-methylthiophenyl, 2-ethylthiophenyl, 3-ethylthiophenyl, 3-ethylthiophenyl, 3-methylthiophenyl, 4-methylthiophenyl, 4-methylthiophenyl, 4-methylthiophenyl, 3-methylthiophenyl, 4-methylthiophenyl, 4-m iophenyl, 4-ethylthiophenyl, 2-propylthiophenyl, 3-propylthiophenyl, 4-propylthiophenyl, 2-isopropylthiophenyl, 3-isopropylthiophenyl, 4-isopropylthiophenyl, 2-butylthiophenyl, 3-butylthiophenyl, 4-butylthiophenyl, 2-methyl-1-naphthyl, 3-methyl-1-naphthyl, 4-methyl-1-naphthyl, 5-methyl-1-naphthyl, 6-methyl-1-naphthyl, 7-methyl-1-naphthyl, 8-methyl-1-naphthyl, 1-methyl-2-naphthyl, 3-methyl-2-naphthyl, 4-methyl-2-naphthyl, 5-methyl-2-naphthyl, 6-methyl-2-naphthyl, 7-methyl-2-naphthyl, 8-methyl-2-naphthyl, 2-methoxy-1-naphthyl, 3-methoxy-1-naphthyl, 4-methoxy-1-naphthyl, 5-methoxy-1-naphthyl, 6-methoxy-1-naphthyl, 7-methoxy-1-naphthyl, 8-methoxy-1-naphthyl, 1-methoxy-2-naphthyl, 3-methoxy-2-naphthyl, 4-methoxy-2-naphthyl, 5-methoxy-2-naphthyl, 6-methoxy-2-naphthyl, 7-methoxy-2-naphthyl, 8-methoxy-2-naphthyl, 2-ethoxy-1-naphthyl, 3-ethoxy-1-naphthyl, 4-ethoxy-1-naphthyl, 5-ethoxy-1-naphthyl, 6-ethoxy-1-naphthyl, 7-ethoxy-1-naphthyl, 8-ethoxy-1-naphthyl, 1-ethoxy-2-naphthyl, 3-ethoxy-2-naphthyl, 4-ethoxy-2-naphthyl, 5-ethoxy-2-naphthyl, 6-ethoxy-2-naphthyl, 7-ethoxy-2-naphthyl, 8-ethoxy-2-naphthyl, 2-hydroxy-1-naphthyl, 3-hydroxy-1-naphthyl, 4-hydroxy-1-naphthyl, 5-hydroxy-1-naphthyl, 6-hydroxy-1-naphthyl, 7-hydroxy-1-naphthyl, 8-hydroxy-1-naphthyl, 1-hydroxy-2-naphthyl, 3-hydroxy-2-naphthyl, 4-hydroxy-2-naphthyl, 5-hydroxy-2-naphthyl, 6-hydroxy-2-naphthyl, 7-hydroxy-2-naphthyl, 8-hydroxy-2-naphthyl, 2-chloro-1-naphthyl, 3-chloro-1-naphthyl, 4-chloro-1-naphthyl, 5-chloro-1-naphthyl, 6-chloro-1-naphthyl, 7-chloro-1-naphthyl, 8-chloro-1-naphthyl, 1-chloro-2-naphthyl, 3-chloro-2-naphthyl, 4-chloro-2-naphthyl, 5-chloro-2-naphthyl, 6-chloro-2-naphthyl, 7-chloro-2-naphthyl, 8-chloro-2-naphthyl, 2-fluoro-1-naphthyl, 3-fluoro-1-naphthyl, 4-fluoro-1-naphthyl, 5-fluoro-1-naphthyl, 6-fluoro-1-naphthyl, 7-fluoro-1-naphthyl, 8-fluoro-1-naphthyl, 1-fluoro-2-naphthyl, 3-fluoro-2-naphthyl, 4-fluoro-2-naphthyl, 5-fluoro-2-naphthyl, 6-fluoro-2-naphthyl, 7-fluoro-2-naphthyl, 8-fluoro-2-naphthyl, 2-amino-1-naphthyl, 3-amino-1-naphthyl, 4-amino-1-naphthyl, 5-amino-1-naphthyl, 6-amino-1-naphthyl, 7-amino-1-naphthyl, 8-amino-1-naphthyl, 1-amino-2-naphthyl, 3-amino-2-naphthyl, 4-amino-2-naphthyl, 5-amino-2-naphthyl, 6-amino-2-naphthyl, 7-amino-2-naphthyl,

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8-amino-2-naphthyl, 2-methylamino-1-naphthyl, 3-methylamino-1-naphthyl, 4-methylamino-1-naphthyl, 5-methylamino-1-naphthyl, 6-methylamino-1-naphthyl, 7-methylamino-1-naphthyl, 8-methylamino-1-naphthyl, 1-methylamino-2-naphthyl, 3-methylamino-2-naphthyl, 4-methylamino-2-naphthyl, 5-methylamino-2-naphthyl, 6-methylamino-2-naphthyl, 7-methylamino-2-naphthyl, 8-methylamino-2-naphthyl, 2-dimethylamino-1-naphthyl, 3-dimethylamino-1-naphthyl, 4-dimethylamino-1-naphthyl, 5-dimethylamino-1-naphthyl, 6-dimethylamino-1-naphthyl, 7-dimethylamino-1-naphthyl, 8-dimethylamino-1-naphthyl, 1-dimethylamino-2-naphthyl, 3-dimethylamino-2-naphthyl, 4-dimethylamino-2-naphthyl, 5-dimethylamino-2-naphthyl, 6-dimethylamino-2-naphthyl, 7-dimethylamino-2-naphthyl, 8-dimethylamino-2-naphthyl, 2-methyl-3-pyridyl, 4-methyl-3-pyridyl, 5-methyl-3-pyridyl, 6-methyl-3-pyridyl, 3-methyl-2-pyridyl, 4-methyl-2-pyridyl, 5-methyl-2-pyridyl, 6-methyl-2-pyridyl, 2-methyl-4-pyridyl, 3-methyl-4-pyridyl, 5-methyl-4-pyridyl, 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5-methyl-2-pyrazinyl, 6-methyl-2-pyrazinyl, 5-methoxy-2-pyrazinyl, 6-methoxy-2-pyrazinyl, 5-ethoxy-2-pyrazinyl, 6-ethoxy-2-pyrazinyl, 5-chloro-2-pyrazinyl, 6-chloro-2-pyrazinyl, 3-methyl-2-furyl, 4-methyl-2-furyl, 5-methyl-2-furyl, 2-methyl-3-furyl, 4-methyl-3-furyl, 5-methyl-3-furyl, 3-methoxy-2-furyl, 4-methoxy-2-furyl, 5-methoxy-2-furyl, 2-methoxy-3-furyl, 4-methoxy-3-furyl, 5-methoxy-3-furyl, 3-chloro-2-furyl, 4-chloro-2-furyl, 5-chloro-2-furyl, 2-chloro-3-furyl, 4-chloro-3-furyl, 5-chloro-3-furyl, 3-fluoro-2-furyl, 4-fluoro-2-furyl, 5-fluoro-2-furyl, 2-fluoro-3-furyl, 4-fluoro-3-furyl, 5-fluoro-3-furyl, 3-methyl-2-thienyl, 4-methyl-2-thienyl, 5-methyl-2-thienyl, 2-methyl-3-thienyl, 4-methyl-3-thienyl, 5-methyl-3-thienyl, 3-methoxy-2-thienyl, 4-methoxy-2-thienyl, 5-methoxy-2-thienyl, 2-methoxy-3-thienyl, 4-methoxy-3-thienyl, 5-methoxy-3-thienyl, 3-chloro-2-thienyl, 4-chloro-2-thienyl, 5-chloro-2-thienyl, 2-chloro-3-thienyl, 4-chloro-3-thienyl, 5-chloro-3-thienyl, 3-fluoro-2-thienyl, 4-fluoro-2-thienyl, 5-fluoro-2-thienyl, 2-fluoro-3-thienyl, 4-fluoro-3-thienyl, and 5-fluoro-3-thienyl.

[0020] In general formula (I), examples of substituents represented by  $R^2$  include hydroxyl, mercapto,  $C_{1-8}$  acyloxy, and  $C_{2-8}$  alkoxycarbonyloxy.

[0021] Examples of the aforementioned  $C_{1-8}$  acyloxy include formyloxy, acetyloxy, propionyloxy, butanoyloxy, pentanoyloxy, hexanoyloxy, heptanoyloxy, octanoyloxy, and benzoyloxy.

[0022] Examples of the aforementioned C<sub>2-8</sub> alkoxycarbonyloxy include methoxycarbonyloxy, ethoxycarbonyloxy, propoxycarbonyloxy, butoxycarbonyloxy, pentyloxycarbonyloxy, hexyloxycarbonyloxy, heptyloxycarbonyloxy, isopropyloxycarbonyloxy, isobutyloxycarbonyloxy, t-butyloxycarbonyloxy, isopentyloxycarbonyloxy, and benzyloxycarbonyloxy.

[0023] In general formula (I), X represents any of NR $^3$ , an oxygen atom, or a sulfur atom, wherein the aforementioned R $^3$  represents a hydrogen atom or C $_{1-3}$  alkyl, and examples of the alkyl include methyl, ethyl, n-propyl, and isopropyl. [0024] In general formula (I), examples of 5- or 6-membered monocyclic aromatic hetero rings containing 1 or 2 hetero atoms selected from a nitrogen atom, an oxygen atom, or a sulfur atom represented by Y include thiophene ring, furan ring, pyrrole ring, thiazole ring, isoxazole ring, oxazole ring, pyrazole ring, imidazole ring, pyridine ring, pyrazine ring, pyrimidine ring, and pyridazine ring. Examples of fused bicyclic aromatic hetero rings containing 1 or 2 hetero atoms selected from a nitrogen atom, an oxygen atom, or a sulfur atom include benzothiophene ring, benzofuran ring, indole ring, benzothiazole ring, benzoxazole ring, benzoimidazole ring, quinoline ring, and isoquinoline ring. The aforementioned Y may be unsubstituted or partially substituted by a substituent. Examples of preferable Y include naphthalene ring, thiophene ring, pyridine ring, and pyrazine ring, and these rings may be unsubstituted or partially substituted by a substituent. For example, when Y is a pyridine ring, one to four substituents may substitute at any position on a pyridine ring. When Y is a pyrazine ring, one to three substituents may substitute at any position on a pyrazine ring. When Y is substituted with two or more substituents, they may be the same or different.

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[0025] Examples of the substituents for Y include  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy, hydroxyl, mercapto,  $C_{1-4}$  alkylthio, a halogen atom, amino,  $C_{2-8}$  dialkylamino,  $C_{1-4}$  monoalkylamino, 1-pyrrolidinyl, 2-pyrrolidinyl, 3-pyrrolidinyl, piperidino, morpholino, and 3-morpholinyl. Alkyl in the aforementioned  $C_{1-4}$  alkyl and  $C_{1-4}$  alkoxy, further in the aforementioned  $C_{2-8}$  dialkylamino and  $C_{1-4}$  monoalkylamino is the same as that in the aforementioned case of  $R^1$ . Examples of the aforementioned  $C_{1-4}$  alkylthio include methylthio, ethylthio, 1-propylthio, 2-propylthio, 1-butylthio, 2-butylthio, and t-butylthio. Examples of the aforementioned halogen atom include fluorine, chlorine, and bromine.

[0026] Examples of Y having a substituent include 2-methyl-1-naphthyl, 3-methyl-1-naphthyl, 4-methyl-1-naphthyl, 5-methyl-1-naphthyl, 6-methyl-1-naphthyl, 7-methyl-1-naphthyl, 8-methyl-1-naphthyl, 1-methyl-2-naphthyl, 3-methyl-2-naphthyl, 4-methyl-2-naphthyl, 5-methyl-2-naphthyl, 6-methyl-2-naphthyl, 7-methyl-2-naphthyl, 8-methyl-2-naphthyl, 2-methoxy-1-naphthyl, 3-methoxy-1-naphthyl, 4-methoxy-1-naphthyl, 5-methoxy-1-naphthyl, 6-methoxy-1-naphthyl, 7-methoxy-1-naphthyl, 8-methoxy-1-naphthyl, 1-methoxy-2-naphthyl, 3-methoxy-2-naphthyl, 4-methoxy-2-naphthyl, 5-methoxy-2-naphthyl, 6-methoxy-2-naphthyl, 7-methoxy-2-naphthyl, 8-methoxy-2-naphthyl, 2-ethoxy-1-naphthyl, 3-ethoxy-1-naphthyl, 4-ethoxy-1-naphthyl, 5-ethoxy-1-naphthyl, 6-ethoxy-1-naphthyl, 7-ethoxy-1-naphthyl, 8-ethoxy-1-naphthyl, 1-ethoxy-2-naphthyl, 3-ethoxy-2-naphthyl, 4-ethoxy-2-naphthyl, 5-ethoxy-2-naphthyl, 6-ethoxy-2-naphthyl, 7-ethoxy-2-naphthyl, 8-ethoxy-2-naphthyl, 2-hydroxy-1-naphthyl, 3-hydroxy-1-naphthyl, 4-hydroxy-1-naphthyl, 5-hydroxy-1-naphthyl, 6-hydroxy-1-naphthyl, 7-hydroxy-1-naphthyl, 8-hydroxy-1-naphthyl, 1-hydroxy-2-naphthyl, 3-hydroxy-2-naphthyl, 4-hydroxy-2-naphthyl, 5-hydroxy-2-naphthyl, 6-hydroxy-2-naphthyl, 7-hydroxy-2-naphthyl, 8-hydroxy-2-naphthyl, 2-chloro-1-naphthyl, 3-chloro-1-naphthyl, 4-chloro-1-naphthyl, 5-chloro-1-naphthyl, 6-chloro-1-naphthyl, 7-chloro-1-naphthyl, 8-chloro-1-naphthyl, 1-chloro-2-naphthyl, 3-chloro-2-naphthyl, 4-chloro-2-naphthyl, 5-chloro-2-naphthyl, 6-chloro-2-naphthyl, 7-chloro-2-naphthyl, 8-chloro-2-naphthyl, 2-fluoro-1-naphthyl, 3-fluoro-1-naphthyl, 4-fluoro-1-naphthyl, 5-fluoro-1-naphthyl, 6-fluoro-1-naphthyl, 7-fluoro-1-naphthyl, 8-fluoro-1-naphthyl, 1-fluoro-2-naphthyl, 3-fluoro-2-naphthyl, 4-fluoro-2-naphthyl, 5-fluoro-2-naphthyl, 6-fluoro-2-naphthyl, 7-fluoro-2-naphthyl, 8-fluoro-2-naphthyl, 2-amino-1-naphthyl, 3-amino-1-naphthyl, 4-amino-1-naphthyl, 5-amino-1-naphthyl, 6-amino-1-naphthyl, 7-amino-1-naphthyl, 8-amino-1-naphthyl, 1-amino-2-naphthyl, 3-amino-2-naphthyl, 4-amino-2-naphthyl, 5-amino-2-naphthyl, 6-amino-2-naphthyl, 7-amino-2-naphthyl, 8-amino-2-naphthyl, 2-methylamino-1-naphthyl, 3-methylamino-1-naphthyl, 4-methylamino-1-naphthyl, 5-methylamino-1-naphthyl, 6-methylamino-1-naphthyl, 7-methylamino-1-naphthyl, 8-methylamino-1-naphthyl, 1-methylamino-2-naphthyl, 3-methylamino-2-naphthyl, 4-methylamino-2-naphthyl, 5-methylamino-2-naphthyl, 6-methylamino-2-naphthyl, 7-methylamino-2-naphthyl, 8-methylamino-2-naphthyl, 2-dimethylamino-1-naphthyl, 3-dimethylamino-1-naphthyl, 4-dimethylamino-1-naphthyl, 5-dimethylamino-1-naphthyl, 6-dimethylamino-1-naphthyl, 7-dimethylamino-1-naphthyl, 8-dimethylamino-1-naphthyl, 1-dimethylamino-2-naphthyl, 3-dimethylamino-2-naphthyl, 4-dimethylamino-2-naphthyl, 5-dimethylamino-2-naphthyl, 6-dimethylamino-2-naphthyl, 7-dimethylamino-2-naphthyl, 8-dimethylamino-2-naphthyl, 3-methyl-2-thienyl, 4-methyl-2-thienyl, 5-methyl-2-thienyl, 2-methyl-3-thienyl, 4-methyl-3-thienyl, 5-methyl-3-thienyl, 3-methoxy-2-thienyl, 4-methoxy-2-thienyl, 5-methoxy-2-thienyl, 2-methoxy-3-thienyl, 4-methoxy-3-thienyl, 5-methoxy-3-thienyl, 3-chloro-2-thienyl, 4-chloro-2-thienyl, 5-chloro-2-thienyl, 2-chloro-3-thienyl, 4-chloro-3-thienyl, 5-chloro-3-thienyl, 3-fluoro-2-thienyl, 4-fluoro-2-thienyl, 5-fluoro-2-thienyl, 2-fluoro-3-thienyl, 4-fluoro-3-thienyl, 5-fluoro-3-thienyl, 3-methyl-2-furyl, 4-methyl-2-furyl, 5-methyl-2-furyl, 2-methyl-3-furyl, 4-methyl-3-furyl, 5-methyl-3-furyl, 3-methoxy-2-furyl, 4-methoxy-2-furyl, 5-methoxy-2-furyl, 2-methoxy-3-furyl, 4-methoxy-3-furyl, 5-methoxy-3-furyl, 3-chloro-2-furyl, 4-chloro-2-furyl, 5-chloro-2-furyl, 2-chloro-3-furyl, 4-chloro-3-furyl, 5-chloro-3-furyl, 3-fluoro-2-furyl, 4-fluoro-2-furyl, 5-fluoro-2-furyl, 2-fluoro-3-furyl, 4-fluoro-3-furyl, 5-fluoro-3-furyl, 3-methyl-2-pyrrolyl, 4-methyl-2-pyrrolyl, 5-methyl-2-pyrrolyl, 2-methyl-3-pyrrolyl, 4-methyl-3-pyrrolyl, 5-methyl-3-pyrrolyl, 3-methoxy-2-pyrrolyl, 4-methoxy-2-pyrrolyl, 5-methoxy-2-pyrrolyl, 2-methoxy-3-pyrrolyl, 4-methoxy-3-pyrrolyl, 5-methoxy-3-pyrrolyl, 3-chloro-2-pyrrolyl, 4-chloro-2-pyrrolyl, 5-chloro-2-pyrrolyl, 2-chloro-3-pyrrolyl, 4-chloro-3-pyrrolyl, 5-chloro-3-pyrrolyl, 3-fluoro-2-pyrrolyl, 4-fluoro-2-pyrrolyl, 5-fluoro-2-pyrrolyl, 2-fluoro-3-pyrrolyl, 4-fluoro-3-pyrrolyl, 5-fluoro-3-pyrrolyl, 1-methyl-2-imidazolyl, 4-methyl-2-imidazolyl, 1-methyl-4-imidazolyl, 2-methyl-4-imidazolyl, 5-methyl-4-imidazolyl, 1-methyl-5-imidazolyl, 4-methoxy-2-imida-

zolyl, 2-methoxy-4-imidazolyl, 5-methoxy-4-imidazolyl, 4-chloro-2-imidazolyl, 2-chloro-4-imidazolyl, 5-chloro-4-imidazolyl, 4-fluoro-2-imidazolyl, 2-fluoro-4-imidazolyl, 5-fluoro-4-imidazolyl, 2-methyl-3-pyridyl, 4-methyl-3-pyridyl, 5-methyl-3-pyridyl, 6-methyl-3-pyridyl, 3-methyl-2-pyridyl, 4-methyl-2-pyridyl, 5-methyl-2-pyridyl, 6-methyl-2-pyridyl, 2-methyl-4-pyridyl, 3-methyl-4-pyridyl, 5-methyl-4-pyridyl, 6-methyl-4-pyridyl, 2-ethyl-3-pyridyl, 4-ethyl-3-pyridyl, 5-ethyl-3-pyridyl, 6-ethyl-3-pyridyl, 3-methyl-2-pyridyl, 4-methyl-2-pyridyl, 5-methyl-2-pyridyl, 6-ethyl-2-pyridyl, 2-ethyl-4-pyridyl, 3-ethyl-4-pyridyl, 5-ethyl-4-pyridyl, 6-ethyl-4-pyridyl, 2-methoxy-3-pyridyl, 4-methoxy-3-pyridyl, 5-methoxy-3-pyridyl, dyl, 6-methoxy-3-pyridyl, 3-methoxy-2-pyridyl, 4-methoxy-2-pyridyl, 5-methoxy-2-pyridyl, 6-methoxy-2-pyridyl, 2-methoxy-4-pyridyl, 3-methoxy-4-pyridyl, 5-methoxy-4-pyridyl, 6-methoxy-4-pyridyl, 2-ethoxy-3-pyridyl, 4-ethoxy-3-pyridyl, 5-ethoxy-3-pyridyl, 6-ethoxy-3-pyridyl, 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4-dimethylamino-2-pyridyl, 2-dimethylamino-4-pyridyl, 3-dimethylamino-4-pyridyl, 5-dimethylamino-4-pyridyl, 6-dimethylamino-4-pyridyl, 2-(1-pyrrolidinyl)-3-pyridyl, 4-(1-pyrrolidinyl)-3-pyridyl, 5-(1-pyrrolidinyl)-3-pyridyl, 6-(1-pyrrolidinyl)-3-pyridyl, 3-(1-pyrrolidinyl)-2-pyridyl, 4-(1-pyrrolidinyl)-2-pyridyl, 5-(1-pyrrolidinyl)-2-pyridyl, 6-(1-pyrrolidinyl)-2-pyridyl, 2-(1-pyrrolidinyl)-4-pyridyl, 3-(1-pyrrolidinyl)-4-pyridyl, 5-(1-pyrrolidinyl)-4-pyridyl, 6-(1-pyrrolidinyl)-4-pyridyl, 2-piperidino-3-pyridyl, 4-piperidino-3-pyridyl, 5-piperidino-3-pyridyl, 6-piperidino-3-pyridyl, 3-piperidino-2-pyridyl, 4-piperidino-2-pyridyl, 5-piperidino-2-pyridyl, 6-piperidino-2-pyridyl, 2-piperidino-4-pyridyl, 3-piperidino-4-pyridyl, 5-piperidino-4-pyridyl, 6-piperidino-4-pyridyl, 2-morpholino-3-pyridyl, 4-morpholino-3-pyridyl, 5-morpholino-3-pyridyl, 6-morpholino-3-pyridyl, 3-morpholino-2-pyridyl, 4-morpholino-2-pyridyl, 5-morpholino-2-pyridyl, 6-morpholino-2-pyridyl, 2-morpholino-4-pyridyl, 3-morpholino-4-pyridyl, 5-morpholino-4-pyridyl, 6-morpholino-4-pyridyl, 2-fluoro-3-pyridyl, 4-fluoro-3-pyridyl, 5-fluoro-3-pyridyl, 6-fluoro-3-pyridyl, 3-fluoro-2-pyridyl, 4-fluoro-2-pyridyl, 5-fluoro-2-pyridyl, 6-fluoro-2-pyridyl, 2-fluoro-4-pyridyl, 3-fluoro-4-pyridyl, 5-fluoro-4-pyridyl, dyl, 6-fluoro-4-pyridyl, 2,4-dimethyl-3-pyridyl, 2,6-dimethyl-3-pyridyl, 5,6-dimethyl-3-pyridyl, 4,6-dimethyl-3-pyridyl, 4,5-dimethyl-2-pyridyl, 5,6-dimethyl-2-pyridyl, 2,3-dimethyl-4-pyridyl, 2,6-dimethyl-4-pyridyl, 2,4-dimethoxy-3-pyridyl, 2,6-dimethoxy-3-pyridyl, 5,6-dimethoxy-3-pyridyl, 4,6-dimethoxy-3-pyridyl, 4,5-dimethoxy-2-pyridyl, 5,6-dimethoxy-2-pyridyl, 2,3-dimethoxy-4-pyridyl, 2,6-dimethoxy-4-pyridyl, 2-chloro-6-methyl-3-pyridyl, 6-chloro-2-methyl-3-pyridyl, 2-chloro-6-methoxy-3-pyridyl, 6-chloro-2-methoxy-3-pyridyl, 5-methyl-6-chloro-3-pyridyl, 5-methoxy-6-chloro-3-pyridyl, dyl, 5-ethoxy-6-chloro-3-pyridyl, 5-chloro-6-methyl-3-pyridyl, 5-methoxy-6-methyl-3-pyridyl, 5-ethoxy-6-methyl-3-pyridyl, 5-chloro-6-methoxy-3-pyridyl, 5-chloro-6-ethoxy-3-pyridyl, 2,5,6-trimethyl-3-pyridyl, 2-pyrazinyl, 5-methyl-2-pyrazinyl, 6-methyl-2-pyrazinyl, 5-methoxy-2-pyrazinyl, 6-methoxy-2-pyrazinyl, 5-ethoxy-2-pyrazinyl, 6-methoxy-2-pyrazinyl, 6-methoxy-2 2-pyrazinyl, 5-chloro-2-pyrazinyl, 6-chloro-2-pyrazinyl, 3-methyl-2-benzothienyl, 4-methyl-2-benzothienyl, 5-methyl-2-benzothienyl, 6-methyl-2-benzothienyl, 7-methyl-2-benzothienyl, 2-methyl-3-benzothienyl, 4-methyl-3-benzothienyl, 5-methyl-3-benzothienyl, 6-methyl-3-benzothienyl, 7-methyl-3-benzothienyl, 2-methyl-5-benzothienyl, 3-methyl-5-benzothienyl, 4-methyl-5-benzothienyl, 6-methyl-5-benzothienyl, 7-methyl-5-benzothienyl, 3-methoxy-2-benzothienyl, 4-methoxy-2-benzothienyl, 5-methoxy-2-benzothienyl, 6-methoxy-2-benzothienyl, 7-methoxy-2-benzothienyl, 2-methoxy-3-benzothienyl, 4-methoxy-3-benzothienyl, 5-methoxy-3-benzothienyl, 6-methoxy-3-benzothienyl, 7-methoxy-3-benzothienyl, 2-methoxy-5-benzothienyl, 3-methoxy-5-benzothienyl, 4-methoxy-5-benzothienyl, 6-methoxy-5-benzothienyl, 7-methoxy-5-benzothienyl, 3-chloro-2-benzothienyl, 4-chloro-2-benzothienyl, 5-chloro-2-benzothienyl, 6-chloro-2-benzothienyl, 7-chloro-2-benzothienyl, 2-chloro-3-benzothienyl, 4-chloro-3-benzothienyl, 5-chloro-3-benzothienyl, 6-chloro-3-benzothienyl, 7-chloro-3-benzothienyl, 2-chloro-5-benzothienyl, 3-chloro-5-benzothienyl, 4-chloro-5-benzothienyl, 6-chloro-5-benzothienyl, 7-chloro-5-benzothienyl, 3-fluoro-2-benzothienyl, 4-fluoro-2-benzothienyl, 5-fluoro-2-benzothienyl, 6-fluoro-2-benzothienyl, 7-fluoro-2-benzothienyl, 2-fluoro-3-benzothienyl, 4-fluoro-3-benzothienyl, 5-fluoro-3-benzothienyl, 6-fluoro-3-benzothienyl, 7-fluoro-3-benzothienyl, 2-fluoro-5-benzothienyl, 3-fluoro-5-benzothienyl, 4-fluoro-5-benzothienyl, 6-fluoro-5-benzothienyl, 7-fluoro-5-benzothienyl, 3-methyl-2-benzo-

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furyl, 4-methyl-2-benzofuryl, 5-methyl-2-benzofuryl, 6-methyl-2-benzofuryl, 7-methyl-2-benzofuryl, 2-methyl-3-benzofuryl, 4-methyl-3-benzofuryl, 5-methyl-3-benzofuryl, 6-methyl-3-benzofuryl, 7-methyl-3-benzofuryl, 2-methyl-5-benzofuryl, 3-methyl-5-benzofuryl, 4-methyl-5-benzofuryl, 6-methyl-5-benzofuryl, 7-methyl-5-benzofuryl, 3-methoxy-2-benzofuryl, 4-methoxy-2-benzofuryl, 5-methoxy-2-benzofuryl, 6-methoxy-2-benzofuryl, 7-methoxy-2-benzofuryl, 2-methoxy-3-benzofuryl, 4-methoxy-3-benzofuryl, 5-methoxy-3-benzofuryl, 6-methoxy-3-benzofuryl, 7-methoxy-3-benzofuryl yl, 2-methoxy-5-benzofuryl, 3-methoxy-5-benzofuryl, 4-methoxy-5-benzofuryl, 6-methoxy-5-benzofuryl, 7-methoxy-5-benzofuryl, 3-chloro-2-benzofuryl, 4-chloro-2-benzofuryl, 5-chloro-2-benzofuryl, 6-chloro-2-benzofuryl, 7-chloro-2-benzofuryl, 2-chloro-3-benzofuryl, 4-chloro-3-benzofuryl, 5-chloro-3-benzofuryl, 6-chloro-3-benzofuryl, 7-chloro-3-benzofuryl, 2-chloro-5-benzofuryl, 3-chloro-5-benzofuryl, 4-chloro-5-benzofuryl, 6-chloro-5-benzofuryl, 7-chloro-5-benzofuryl, 3-fluoro-2-benzofuryl, 4-fluoro-2-benzofuryl, 5-fluoro-2-benzofuryl, 6-fluoro-2-benzofuryl, 7-fluoro-2-benzofuryl zofuryl, 2-fluoro-3-benzofuryl, 4-fluoro-3-benzofuryl, 5-fluoro-3-benzofuryl, 6-fluoro-3-benzofuryl, 7-fluoro-3-benzofuryl, 7-fluoro-3-be yl, 2-fluoro-5-benzofuryl, 3-fluoro-5-benzofuryl, 4-fluoro-5-benzofuryl, 6-fluoro-5-benzofuryl, 7-fluoro-5-benzofuryl, 1-methyl-2-indolyl, 3-methyl-2-indolyl, 4-methyl-2-indolyl, 5-methyl-2-indolyl, 6-methyl-2-indolyl, 7-methyl-2-indolyl, 1-methyl-3-indolyl, 2-methyl-3-indolyl, 4-methyl-3-indolyl, 5-methyl-3-indolyl, 6-methyl-3-indolyl, 7-methyl-3-indolyl, 1-methyl-5-indolyl, 2-methyl-5-indolyl, 3-methyl-5-indolyl, 4-methyl-5-indolyl, 6-methyl-5-indolyl, 7-methyl-5-indolyl, 3-methoxy-2-indolyl, 4-methoxy-2-indolyl, 5-methoxy-2-indolyl, 6-methoxy-2-indolyl, 7-methoxy-2-indolyl, 2-methoxy-3-indolyl, 4-methoxy-3-indolyl, 5-methoxy-3-indolyl, 6-methoxy-3-indolyl, 7-methoxy-3-indolyl, 2-methoxy-5-indolyl, 3-methoxy-5-indolyl, 4-methoxy-5-indolyl, 6-methoxy-5-indolyl, 7-methoxy-5-indolyl, 3-chloro-2-indolyl, 4-chloro-2-indolyl, 5-chloro-2-indolyl, 6-chloro-2-indolyl, 7-chloro-2-indolyl, 2-chloro-3-indolyl, 4-chloro-3-indolyl, 5-chloro-3-indolyl, 6-chloro-3-indolyl, 7-chloro-3-indolyl, 2-chloro-5-indolyl, 3-chloro-5-indolyl, 4-chloro-5-indolyl, 6-chloro-5-indolyl, 7-chloro-5-indolyl, 3-fluoro-2-indolyl, 4-fluoro-2-indolyl, 5-fluoro-2-indolyl, 6-fluoro-2-indolyl, 7-fluoro-2-indolyl, 2-fluoro-3-indolyl, 4-fluoro-3-indolyl, 5-fluoro-3-indolyl, 6-fluoro-3-indolyl, 7-fluoro-3-indolyl, 2-fluoro-5-indolyl, 3-fluoro-5-indolyl, 4-fluoro-5-indolyl, 6-fluoro-5-indolyl, 7-fluoro-5-indolyl, 3-methyl-2-quinolyl, 4-methyl-2-quinolyl, 5-methyl-2-quinolyl, 6-methyl-2-quinolyl, 7-methyl-2-quinolyl, 8-methyl-2-quinolyl, 2-methyl-4-quinolyl, 3-methyl-4-quinolyl, 5-methyl-4-quinolyl, 6-methyl-4-quinolyl, 7-methyl-4-quinolyl, 8-methyl-4-quinolyl, 2-methyl-6-quinolyl, 3-methyl-6-quinolyl, 4-methyl-6-quinolyl, 5-methyl-6-quinolyl, 7-methyl-6-quinolyl, 8-methyl-6-quinolyl, 3-methoxy-2-quinolyl, 4-methoxy-2-quinolyl, 5-methoxy-2-quinolyl, 6-methoxy-2-quinolyl, 7-methoxy-2-quinolyl, 8-methoxy-2-quinolyl, 2-methoxy-4-quinolyl, 3-methoxy-4-quinolyl, 5-methoxy-4-quinolyl, 6-methoxy-4-quinolyl, 7-methoxy-4-quinolyl, 8-methoxy-4-quinolyl, 2-methoxy-6-quinolyl, 3-methoxy-6-quinolyl, 4-methoxy-6-quinolyl, 5-methoxy-6-quinolyl, 7-methoxy-6-quinolyl, 8-methoxy-6-quinolyl, 3-chloro-2-quinolyl, 4-chloro-2-quinolyl, 5-chloro-2-quinolyl, 6-chloro-2-quinolyl, 7-chloro-2-quinolyl, 8-chloro-2-quinolyl, 2-chloro-4-quinolyl, 3-chloro-4-quinolyl, 5-chloro-4-quinolyl, 6-chloro-4-quinolyl, 7-chloro-4-quinolyl, 8-chloro-4-quinolyl, 2-chloro-6-quinolyl, 3-chloro-6-quinolyl, 4-chloro-6-quinolyl, 5-chloro-6-quinolyl, 7-chloro-6-quinolyl, 7-chloro-6-quinolyl, 8-chloro-6-quinolyl, 8-chloro-6-quinoly ro-6-quinolyl, 8-chloro-6-quinolyl, 3-fluoro-2-quinolyl, 4-fluoro-2-quinolyl, 5-fluoro-2-quinolyl, 6-fluoro-2-quinolyl, 7-fluoro-2-quinolyl, 8-fluoro-2-quinolyl, 2-fluoro-4-quinolyl, 3-fluoro-4-quinolyl, 5-fluoro-4-quinolyl, 6-fluoro-4-quinolyl, 7-fluoro-4-quinolyl, 8-fluoro-4-quinolyl, 2-fluoro-6-quinolyl, 3-fluoro-6-quinolyl, 4-fluoro-6-quinolyl, 5-fluoro-6-quinolyl, 7-fluoro-6-quinolyl, and 8-fluoro-6-quinolyl.

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[0027] In general formula (I), examples of further preferable X include NH and an oxygen atom, with NH being particularly preferable.

**[0028]** In general formula (I), examples of further preferable  $R^1$  include  $C_{1-6}$  alkyl,  $C_{2-6}$  alkenyl, and  $C_{2-6}$  alkynyl. Specific examples thereof include methyl, ethyl, propyl, isopropyl, butyl, 2-butyl, pentyl, 2-pentyl, hexyl, 2-hexyl, vinyl, propenyl, butenyl, butynyl, and pentenyl. Among them,  $C_{3-5}$  alkyl,  $C_{3-5}$  alkenyl, and  $C_{3-5}$  alkynyl, more specifically, propyl, isopropyl, butyl, 2-butyl, pentyl, 2-pentyl, propenyl, butenyl, butynyl, and pentenyl are further preferable, with propyl, butyl, and pentyl being particularly preferable.

[0029] In general formula (I), examples of further preferable R<sup>2</sup> include hydroxyl, acetyloxy, propionyloxy, methoxycarbonyloxy, ethoxycarbonyloxy, propoxycarbonyloxy, and butoxycarbonyloxy, with hydroxyl, methoxycarbonyloxy, and ethoxycarbonyloxy being particularly preferable.

[0030] In general formula (I), examples of further preferable Y include a substituted or unsubstituted pyridine ring (e. g., 2-pyridyl, 3-pyridyl, and 4-pyridyl) and a pyrazine ring (e.g., 2-pyrazinyl and 3-pyrazinyl), with 3-pyridyl being particularly preferable. Examples of further preferable Y having a substituent include 2-methyl-3-pyridyl, 6-methyl-3-pyridyl, 2-ethyl-3-pyridyl, 6-ethoxy-3-pyridyl, 6-methoxy-3-pyridyl, 2-ethoxy-3-pyridyl, 6-ethoxy-3-pyridyl, 6-ethoxy-3-pyridyl, 6-foloro-3-pyridyl, 6-dimethylamino-3-pyridyl, 6-(1-pyrrolidinyl)-3-pyridyl, 6-piperidino-3-pyridyl, 6-morpholino-3-pyridyl, 6-methyl-3-pyridyl, 5,6-dimethyl-3-pyridyl, 5,6-dimethyl-3-pyridyl, 6-methyl-3-pyridyl, 6-methoxy-3-pyridyl, 6-ethoxy-3-pyridyl, 6-chloro-3-pyridyl, 6-(1-pyrrolidinyl)-3-pyridyl, 6-morpholino-3-pyridyl, 2-methyl-3-pyridyl, 3-pyridyl, 3-pyrid

[0031] Specific examples of the compounds in the scope of the present invention include the following.

Table 1

			iable	
	Х	R <sup>1</sup>	R <sup>2</sup>	Υ
5	NH	propyl	ОН	2-pyridyl
	NH	propyl	OH	3-pyridyl
	NH	propyl	ОН	4-pyridyl
	NH	propyl	ОН	2-methyl-3-pyridyl
10	NH	propyl	OH	4-methyl-3-pyridyl
	NH	propyl	ОН	5-methyl-3-pyridyl
	NH	propyl	ОН	6-methyl-3-pyridyl
15	NH	propyl	ОН	2-ethyl-3-pyridyl
	NH	propyl	ОН	4-ethyl-3-pyridyl
	NH	propyl	ОН	5-ethyl-3-pyridyl
	NH	propyl	ОН	6-ethyl-3-pyridyl
20	NH	propyl	ОН	2-methoxy-3-pyridyl
	NH	propyl	ОН	4-methoxy-3-pyridyl
	NH	propyl	OH	5-methoxy-3-pyridyl
25	NH	propyl	ОН	6-methoxy-3-pyridyl
	NH	propyl	ОН	2-ethoxy-3-pyridyl
	NH	propyl	ОН	4-ethoxy-3-pyridyl
	NH	propyl	ОН	5-ethoxy-3-pyridyl
30	NH	propyl	OH	6-ethoxy-3-pyridyl
	NH	propyl	ОН	2-chloro-3-pyridyl
	NH	propyl	OH	4-chloro-3-pyridyl
35	NH	propyl	OH	5-chloro-3-pyridyl
	NH	propyl	ОН	6-chloro-3-pyridyl
	NH	propyl	OH	2-fluoro-3-pyridyl
40	NH	propyl	OH	4-fluoro-3-pyridyl
40	NH	propyl	ОН	5-fluoro-3-pyridyl
	NH	propyl	ОН	6-fluoro-3-pyridyl
	NH	propyl	ОН	2-dimethylamino-3-pyridyl
45	NH	propyl	ОН	4-dimethylamino-3-pyridyl
	NH	propyl	ОН	5-dimethylamino-8-pyridyl
	NH	propyl	ОН	6-dimethylamino-3-pyridyl
50	NH	propyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
	NH	propyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
	NH	propyl	OH	5-(1-pyrrolidinyl)-3-pyridyl
	NH	propyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
55	NH	propyl	ОН	2-piperidino-3-pyridyl
	NH	propyl	ОН	4-piperidino-3-pyridyl

Table 1 (continued)

		`	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	ОН	5-piperidino-3-pyridyl
NH	propyl	ОН	6-piperidino-3-pyridyl
NH	propyl	ОН	2-morpholino-3-pyridyl
NH	propyl	ОН	4-morpholino-3-pyridyl
NH	propyl	ОН	5-morpholino-3-pyridyl
NH	propyl	ОН	6-morpholino-3-pyridyl
NH	propyl	ОН	2-hydroxy-3-pyridyl
NH	propyl	ОН	4-hydroxy-3-pyridyl
NH	propyl	ОН	5-hydroxy-3-pyridyl
NH	propyl	ОН	6-hydroxy-3-pyridyl
NH	propyl	ОН	2-mercapto-3-pyridyl
NH	propyl	ОН	4-mercapto-3-pyridyl
NH	propyl	ОН	5-mercapto-3-pyridyl
NH	propyl	ОН	6-mercapto-3-pyridyl
NH	propyl	ОН	2-methylthio-3-pyridyl
NH	propyl	ОН	4-methylthio-3-pyridyl
NH	propyl	ОН	5-methylthio-3-pyridyl
NH	propyl	ОН	6-methylthio-3-pyridyl
NH	propyl	ОН	2,6-dimethyl-3-pyridyl
NH	propyl	ОН	5,6-dimethyl-3-pyridyl
NH	propyl	ОН	2,6-diethyl-3-pyridyl
NH	propyl	ОН	5,6-diethyl-3-pyridyl
NH	propyl	ОН	2,6-dimethoxy-3-pyridyl
NH	propyl	ОН	5,6-dimethoxy-3-pyridyl
NH	propyl	ОН	2,6-diethoxy-3-pyridyl
NH	propyl	ОН	5,6-diethoxy-3-pyridyl
NH	propyl	ОН	2,6-dichloro-3-pyridyl
NH	propyl	ОН	5,6-dichloro-3-pyridyl
NH	propyl	ОН	5-chloro-6-methoxy-3-pyridyl
NH	propyl	ОН	5-chloro-6-ethoxy-3-pyridyl
NH	propyl	ОН	2-chloro-6-methyl-3-pyridyl
NH	propyl	ОН	6-chloro-2-methyl-3-pyridyl
NH	propyl	ОН	2-methyl-4-pyridyl
NH	propyl	ОН	2-ethyl-4-pyridyl
NH	propyl	ОН	2-methoxy-4-pyridyl
NH	propyl	ОН	2-ethoxy-4-pyridyl
NH	propyl	ОН	2-chloro-4-pyridyl
NH	propyl	ОН	2-dimethylamino-4-pyridyl

Table 1 (continued)

		Table 1 (com	
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
NH	propyl	ОН	2-piperidino-4-pyridyl
NH	propyl	ОН	2-morpholino-4-pyridyl
NH	propyl	ОН	2-methylthio-4-pyridyl
NH	propyl	ОН	2-pyrazinyl
NH	propyl	ОН	5-methyl-2-pyrazinyl
NH	propyl	ОН	5-ethyl-2-pyrazinyl
NH	propyl	ОН	5-methoxy-2-pyrazinyl
NH	propyl	ОН	5-ethoxy-2-pyrazinyl
NH	propyl	ОН	5-chloro-2-pyrazinyl
NH	propyl	ОН	6-methyl-2-pyrazinyl
NH	propyl	ОН	6-methoxy-2-pyrazinyl
NH	propyl	ОН	6-chloro-2-pyrazinyl
NH	propyl	OCOOMe	2-pyridyl
NH	propyl	OCOOMe	3-pyridyl
NH	propyl	OCOOMe	4-pyridyl
NH	propyl	OCOOMe	2-methyl-3-pyridyl
NH	propyl	OCOOMe	4-methyl-3-pyridyl
NH	propyl	OCOOMe	5-methyl-3-pyridyl
NH	propyl	OCOOMe	6-methyl-3-pyridyl
NH	propyl	OCOOMe	2-ethyl-3-pyridyl
NH	propyl	OCOOMe	4-ethyl-3-pyridyl
NH	propyl	OCOOMe	5-ethyl-3-pyridyl
NH	propyl	OCOOMe	6-ethyl-3-pyridyl
NH	propyl	OCOOMe	2-methoxy-3-pyridyl
NH	propyl	OCOOMe	4-methoxy-3-pyridyl
NH	propyl	OCOOMe	5-methoxy-3-pyridyl
NH	propyl	OCOOMe	6-methoxy-3-pyridyl
NH	propyl	OCOOMe	2-ethoxy-3-pyridyl
NH	propyl	OCOOMe	4-ethoxy-3-pyridyl
NH	propyl	OCOOMe	5-ethoxy-3-pyridyl
NH	prupyl	OCOOMe	6-ethoxy-3-pyridyl
NH	propyl	OCOOMe	2-chloro-3-pyridyl
NH	propyl	OCOOMe	4-chloro-3-pyridyl
NH	propyl	OCOOMe	5-chloro-3-pyridyl
NH	propyl	OCOOMe	6-chloro-3-pyridyl
NH	propyl	OCOOMe	2-fluoro-3-pyridyl
NH	propyl	OCOOMe	4-fluoro-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOMe	5-fluoro-3-pyridyl
NH	propyl	OCOOMe	6-fluoro-3-pyridyl
NH	propyl	OCOOMe	2-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	4-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	5-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	6-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	2-piperidino-3-pyridyl
NH	propyl	OCOOMe	4-piperidino-3-pyridyl
NH	propyl	OCOOMe	5-piperidino-3-pyridyl
NH	propyl	OCOOMe	6-piperidino-3-pyridyl
NH	propyl	OCOOMe	2-morpholino-3-pyridyl
NH	propyl	OCOOMe	4-morpholino-3-pyridyl
NH	propyl	OCOOMe	5-morpholino-3-pyridyl
NH	propyl	OCOOMe	6-morpholino-3-pyridyl
NH	propyl	OCOOMe	2-hydroxy-3-pyridyl
NH	propyl	OCOOMe	4-hydroxy-3-pyridyl
NH	propyl	OCOOMe	5-hydroxy-3-pyridyl
NH	propyl	OCOOMe	6-hydroxy-3-pyridyl
NH	propyl	OCOOMe	2-mercapto-3-pyridyl
NH	propyl	OCOOMe	4-mercapto-3-pyridyl
NH	propyl	OCOOMe	5-mercapto-3-pyridyl
NH	propyl	OCOOMe	6-mercapto-3-pyridyl
NH	propyl	OCOOMe	2-methylthio-3-pyridyl
NH	propyl	OCOOMe	4-methylthio-3-pyridyl
NH	propyl	OCOOMe	5-methylthio-3-pyridyl
NH	propyl	OCOOMe	6-methylthio-3-pyridyl
NH	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH	propyl	OCOOMe	5,6-dimethyl-3-pyridyl
NH	propyl	OCOOMe	2,6-diethyl-3-pyridyl
NH	propyl	OCOOMe	5,6-diethyl-3-pyridyl
NH	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	propyl	OCOOMe	5,6-diethoxy-3-pyridyl

Table 1 (continued)

		Table 1 (com	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	propyl	OCOOMe	5,6-dichloro-3-pyridyl
NH	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
NH	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
NH	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	propyl	OCOOMe	2-methyl-4-pyridyl
NH	propyl	OCOOMe	2-ethyl-4-pyridyl
NH	propyl	OCOOMe	2-methoxy-4-pyridyl
NH	propyl	OCOOMe	2-ethoxy-4-pyridyl
NH	propyl	OCOOMe	2-chloro-4-pyridyl
NH	propyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	propyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
NH	propyl	OCOOMe	2-piperidino-4-pyridyl
NH	propyl	OCOOMe	2-morpholino-4-pyridyl
NH	propyl	OCOOMe	2-methylthio-4-pyridyl
NH	propyl	OCOOMe	2-pyrazinyl
NH	propyl	OCOOMe	5-methyl-2-pyrazinyl
NH	propyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	propyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	propyl	OCOOMe	5-chloro-2-pyrazinyl
NH	propyl	OCOOMe	6-methyl-2-pyrazinyl
NH	propyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	propyl	OCOOMe	6-chloro-2-pyrazinyl
NH	propyl	OCOOEt	2-pyridyl
NH	propyl	OCOOEt	3-pyridyl
NH	propyl	OCOOEt	4-pyridyl
NH	propyl	OCOOEt	2-methyl-3-pyridyl
NH	propyl	OCOOEt	4-methyl-3-pyridyl
NH	propyl	OCOOEt	5-methyl-3-pyridyl
NH	propyl	OCOOEt	6-methyl-3-pyridyl
NH	propyl	OCOOEt	2-ethyl-3-pyridyl
NH	propyl	OCOOEt	4-ethyl-3-pyridyl
NH	propyl	OCOOEt	5-ethyl-3-pyridyl
NH	propyl	OCOOEt	6-ethyl-3-pyridyl
NH	propyl	OCOOEt	2-methoxy-3-pyridyl
NH	propyl	OCOOEt	4-methoxy-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	propyl	OCOOEt	5-methoxy-3-pyridyl
NH	propyl	OCOOEt	6-methoxy-3-pyridyl
NH	propyl	OCOOEt	2-ethoxy-3-pyridyl
NH	propyl	OCOOEt	4-ethoxy-3-pyridyl
NH	propyl	OCOOEt	5-ethoxy-3-pyridyl
NH	propyl	OCOOEt	6-ethoxy-3-pyridyl
NH	propyl	OCOOEt	2-chloro-3-pyridyl
NH	propyl	OCOOEt	4-chloro-3-pyridyl
NH	propyl	OCOOEt	5-chloro-3-pyridyl
NH	propyl	OCOOEt	6-chloro-3-pyridyl
NH	propyl	OCOOEt	2-fluoro-3-pyridyl
NH	propyl	OCOOEt	4-fluoro-3-pyridyl
NH	propyl	OCOOEt	5-fluoro-3-pyridyl
NH	propyl	OCOOEt	6-fluoro-3-pyridyl
NH	propyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	2-piperidino-3-pyridyl
NH	propyl	OCOOEt	4-piperidino-3-pyridyl
NH	propyl	OCOOEt	5-piperidino-3-pyridyl
NH	propyl	OCOOEt	6-piperidino-3-pyridyl
NH	propyl	OCOOEt	2-morpholino-3-pyridyl
NH	propyl	OCOOEt	4-morpholino-3-pyridyl
NH	propyl	OCOOEt	5-morpholino-3-pyridyl
NH	propyl	OCOOEt	6-morpholino-3-pyridyl
NH	propyl	OCOOEt	2-hydroxy-3-pyridyl
NH	propyl	OCOOEt	4-hydroxy-3-pyridyl
NH	propyl	OCOOEt	5-hydroxy-3-pyridyl
NH	propyl	OCOOEt	6-hydroxy-3-pyridyl
NH	propyl	OCOOEt	2-mercapto-3-pyridyl
NH	propyl	OCOOEt	4-mercapto-3-pyridyl
NH	propyl	OCOOEt	5-mercapto-3-pyridyl
NH	propyl	OCOOEt	6-mercapto-3-pyridyl

Table 1 (continued)

		Table 1 (con	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOEt	2-methylthio-3-pyridyl
NH	propyl	OCOOEt	4-methylthio-3-pyridyl
NH	propyl	OCOOEt	5-methylthio-3-pyridyl
NH	propyl	OCOOEt	6-methylthio-3-pyridyl
NH	propyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	propyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	propyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	propyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	propyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	propyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	propyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	propyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	propyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	propyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	propyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	propyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	propyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	propyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	propyl	OCOOEt	2-methyl-4-pyridyl
NH	propyl	OCOOEt	2-ethyl-4-pyridyl
NH	propyl	OCOOEt	2-methoxy-4-pyridyl
NH	propyl	OCOOEt	2-ethoxy-4-pyridyl
NH	propyl	OCOOEt	2-chloro-4-pyridyl
NH	propyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	propyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	propyl	OCOOEt	2-piperidino-4-pyridyl
NH	propyl	OCOOEt	2-morpholino-4-pyridyl
NH	propyl	OCOOEt	2-methylthio-4-pyridyl
NH	propyl	OCOOEt	2-pyrazinyl
NH	propyl	OCOOEt	5-methyl-2-pyrazinyl
NH	propyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	propyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	propyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	propyl	OCOOEt	5-chloro-2-pyrazinyl
NH	propyl	OCOOEt	6-methyl-2-pyrazinyl
NH	propyl	OCOOEt	6-methoxy-2-pyrazinyl
NH	propyl	OCOOEt	6-chloro-2-pyrazinyl
NH	n-butyl	ОН	2-pyridyl

Table 1 (continued)

		,	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-butyl	ОН	3-pyridyl
NH	n-butyl	ОН	4-pyridyl
NH	n-butyl	ОН	2-methyl-3-pyridyl
NH	n-butyl	ОН	4-methyl-3-pyridyl
NH	n-butyl	ОН	5-methyl-3-pyridyl
NH	n-butyl	ОН	6-methyl-3-pyridyl
NH	n-butyl	ОН	2-ethyl-3-pyridyl
NH	n-butyl	ОН	4-ethyl-3-pyridyl
NH	n-butyl	ОН	5-ethyl-3-pyridyl
NH	n-butyl	ОН	6-ethyl-3-pyridyl
NH	n-butyl	ОН	2-methoxy-3-pyridyl
NH	n-butyl	ОН	4-methoxy-3-pyridyl
NH	n-butyl	ОН	6-methoxy-3-pyridyl
NH	n-butyl	ОН	6-methoxy-3-pyridyl
NH	n-butyl	ОН	2-ethoxy-3-pyridyl
NH	n-butyl	ОН	4-ethoxy-3-pyridyl
NH	n-butyl	ОН	5-ethoxy-3-pyridyl
NH	n-butyl	ОН	6-ethoxy-3-pyridyl
NH	n-butyl	ОН	2-chloro-3-pyridyl
NH	n-butyl	ОН	4-chloro-3-pyridyl
NH	n-butyl	ОН	5-chloro-3-pyridyl
NH	n-butyl	ОН	6-chloro-3-pyridyl
NH	n-butyl	ОН	2-fluoro-3-pyridyl
NH	n-butyl	ОН	4-fluoro-3-pyridyl
NH	n-butyl	ОН	5-fluoro-3-pyridyl
NH	n-butyl	ОН	6-fluoro-3-pyridyl
NH	n-butyl	ОН	2-dimethylamino-3-pyridyl
NH	n-butyl	ОН	4-dimethylamino-3-pyridyl
NH	n-butyl	ОН	5-dimethylamino-3-pyridyl
NH	n-butyl	ОН	6-dimethylamino-3-pyridyl
NH	n-butyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	2-piperidino-3-pyridyl
NH	n-butyl	ОН	4-piperidino-3-pyridyl
NH	n-butyl	ОН	5-piperidino-3-pyridyl
NH	n-butyl	ОН	6-piperidino-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-butyl	ОН	2-morpholino-3-pyridyl
NH	n-butyl	ОН	4-morpholino-3-pyridyl
NH	n-butyl	ОН	5-morpholino-3-pyridyl
NH	n-butyl	ОН	6-morpholino-3-pyridyl
NH	n-butyl	ОН	2-hydroxy-3-pyridyl
NH	n-butyl	ОН	4-hydroxy-3-pyridyl
NH	n-butyl	ОН	5-hydroxy-3-pyridyl
NH	n-butyl	ОН	6-hydroxy-3-pyridyl
NH	n-butyl	ОН	2-mercapto-3-pyridyl
NH	n-butyl	ОН	4-mercapto-3-pyridyl
NH	n-butyl	ОН	5-mercapto-3-pyridyl
NH	n-butyl	ОН	6-mercapto-3-pyridyl
NH	n-butyl	ОН	2-methylthio-3-pyridyl
NH	n-butyl	ОН	4-methylthio-3-pyridyl
NH	n-butyl	ОН	5-methylthio-3-pyridyl
NH	n-butyl	ОН	6-methylthio-3-pyridyl
NH	n-butyl	ОН	2,6-dimethyl-3-pyridyl
NH	n-butyl	ОН	5,6-dimethyl-3-pyridyl
NH	n-butyl	ОН	2,6-diethyl-3-pyridyl
NH	n-butyl	ОН	5,6-diethyl-3-pyridyl
NH	n-butyl	ОН	2,6-dimethoxy-3-pyridyl
NH	n-butyl	ОН	5,6-dimethoxy-3-pyridyl
NH	n-butyl	ОН	2,6-diethoxy-3-pyridyl
NH	n-butyl	ОН	5,6-diethoxy-3-pyridyl
NH	n-butyl	ОН	2,6-dichloro-3-pyridyl
NH	n-butyl	ОН	5,6-dichloro-3-pyridyl
NH	n-butyl	ОН	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	ОН	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	ОН	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	ОН	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	ОН	2-methyl-4-pyridyl
NH	n-butyl	ОН	2-ethyl-4-pyridyl
NH	n-butyl	ОН	2-methoxy-4-pyridyl
NH	n-butyl	ОН	2-ethoxy-4-pyridyl
NH	n-butyl	ОН	2-chloro-4-pyridyl
NH	n-butyl	ОН	2-dimethylamino-4-pyridyl
NH	n-butyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	ОН	2-piperidino-4-pyridyl

Table 1 (continued)

			macaj
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-butyl	ОН	2-morpholino-4-pyridyl
NH	n-butyl	ОН	2-methylthio-4-pyridyl
NH	n-butyl	ОН	2-pyrazinyl
NH	n-butyl	ОН	5-methyl-2-pyrazinyl
NH	n-butyl	ОН	5-ethyl-2-pyrazinyl
NH	n-butyl	ОН	5-methoxy-2-pyrazinyl
NH	n-butyl	ОН	5-ethoxy-2-pyrazinyl
NH	n-butyl	ОН	5-chloro-2-pyrazinyl
NH	n-butyl	ОН	6-methyl-2-pyrazinyl
NH	n-butyl	ОН	6-methoxy-2-pyrazinyl
NH	n-butyl	ОН	6-chloro-2-pyrazinyl
NH	n-butyl	OCOOMe	2-pyridyl
NH	n-butyl	OCOOMe	3-pyridyl
NH	n-butyl	OCOOMe	4-pyridyl
NH	n-butyl	OCOOMe	2-methyl-3-pyridyl
NH	n-butyl	OCOOMe	4-methyl-3-pyridyl
NH	n-butyl	OCOOMe	5-methyl-3-pyridyl
NH	n-butyl	OCOOMe	6-methyl-3-pyridyl
NH	n-butyl	OCOOMe	2-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	4-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	5-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	6-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	2-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	4-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	5-methoxy-3-pyridyl
NII	n-butyl	OCOOMe	6-methoxy-8-pyridyl
NH	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2-chloro-3-pyridyl
NH	n-butyl	OCOOMe	4-chloro-3-pyridyl
NH	n-butyl	OCOOMe	5-chloro-3-pyridyl
NH	n-butyl	OCOOMe	6-chloro-3-pyridyl
NH	n-butyl	OCOOMe	2-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	4-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	5-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	6-fluoro-3-pyridyl

Table 1 (continued)

		Table 1 (cont	···-··-,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-butyl	OCOOMe	2-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	5-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	6-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	2-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	4-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	5-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	6-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	2-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	4-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	5-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	6-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	2-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	6-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	2-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	4-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	5-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	6-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	2-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	4-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	5-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	6-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
NH	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl

Table 1 (continued)

		Table 1 (com	
X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	OCOOMe	2-methyl-4-pyridyl
NH	n-butyl	OCOOMe	2-ethyl-4-pyridyl
NH	n-butyl	OCOOMe	2-methoxy-4-pyridyl
NH	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
NH	n-butyl	OCOOMe	2-chloro-4-pyridyl
NH	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	OCOOMe	2-piperidino-4-pyridyl
NH	n-butyl	OCOOMe	2-morpholino-4-pyridyl
NH	n-butyl	OCOOMe	2-methylthio-4-pyridyl
NH	n-butyl	OCOOMe	2-pyrazinyl
NH	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
NH	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
NH	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
NH	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	6-chloro-2-pyrazinyl
NH	n-butyl	OCOOEt	2-pyridyl
NH	n-butyl	OCOOEt	3-pyridyl
NH	n-butyl	OCOOEt	4-pyridyl
NH	n-butyl	OCOOEt	2-methyl-3-pyridyl
NH	n-butyl	OCOOEt	4-methyl-3-pyridyl
NH	n-butyl	OCOOEt	5-methyl-3-pyridyl
NH	n-butyl	OCOOEt	6-methyl-3-pyridyl
NH	n-butyl	OCOOEt	2-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	4-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	5-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	6-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	2-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	4-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	5-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	6-methoxy-3-pyridyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5-ethosy-3-pyridyl
NH	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2-chloro-3-pyridyl
NH	n-butyl	OCOOEt	4-chloro-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-3-pyridyl
NH	n-butyl	OCOOEt	6-chloro-3-pyridyl
NH	n-butyl	OCOOEt	2-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	4-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	5-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	6-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	2-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	4-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	5-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	6-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	2-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	4-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	5-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	6-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	6-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	2-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	4-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	5-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	6-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	2-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	4-methylthio-3-pyridyl

Table 1 (continued)

		Table 1 (con	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOEt	5-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	6-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	OCOOEt	2-methyl-4-pyridyl
NH	n-butyl	OCOOEt	2-ethyl-4-pyridyl
NH	n-butyl	OCOOEt	2-methoxy-4-pyridyl
NH	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
NH	n-butyl	OCOOEt	2-chloro-4-pyridyl
NH	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	OCOOEt	2-piperidino-4-pyridyl
NH	n-butyl	OCOOEt	2-morpholino-4-pyridyl
NH	n-butyl	OCOOEt	2-methylthio-4-pyridyl
NH	n-butyl	OCOOEt	2-pyrazinyl
NH	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
NH	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
NH	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
NH	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	6-chloro-2-pyrazinyl
NH	n-pentyl	ОН	2-pyridyl
NH	n-pentyl	ОН	3-pyridyl
		+	i

Table 1 (continued)

		`	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	ОН	2-methyl-3-pyridyl
NH	n-pentyl	ОН	4-methyl-3-pyridyl
NH	n-pentyl	ОН	5-methyl-3-pyridyl
NH	n-pentyl	ОН	6-methyl-3-pyridyl
NH	n-pentyl	ОН	2-ethyl-3-pyridyl
NH	n-pentyl	ОН	4-ethyl-3-pyridyl
NH	n-pentyl	ОН	5-ethyl-3-pyridyl
NH	n-pentyl	ОН	6-ethyl-3-pyridyl
NH	n-pentyl	ОН	2-methoxy-3-pyridyl
NH	n-pentyl	ОН	4-methoxy-3-pyridyl
NH	n-pentyl	ОН	5-methoxy-3-pyridyl
NH	n-pentyl	ОН	6-methoxy-3-pyridyl
NH	n-pentyl	ОН	2-ethoxy-3-pyridyl
NH	n-pentyl	ОН	4-ethoxy-3-pyridyl
NH	n-pentyl	ОН	5-ethoxy-3-pyridyl
NH	n-pentyl	ОН	6-ethoxy-3-pyridyl
NH	n-pentyl	ОН	2-chloro-3-pyridyl
NH	n-pentyl	ОН	4-chloro-3-pyridyl
NH	n-pentyl	ОН	5-chloro-3-pyridyl
NH	n-pentyl	ОН	6-chloro-3-pyridyl
NH	n-pentyl	ОН	2-fluoro-3-pyridyl
NH	n-pentyl	ОН	4-fluoro-3-pyridyl
NH	n-pentyl	ОН	5-fluoro-3-pyridyl
NH	n-pentyl	ОН	6-fluoro-3-pyridyl
NH	n-pentyl	ОН	2-dimethylamino-3-pyridyl
NH	n-pentyl	ОН	4-dimethylamino-3-pyridyl
NH	n-pentyl	ОН	5-dimethylamino-3-pyridyl
NH	n-pentyl	ОН	6-dimethylamino-3-pyridyl
NH	n-pentyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	2-piperidino-3-pyridyl
NH	n-pentyl	ОН	4-piperidino-3-pyridyl
NH	n-pentyl	ОН	5-piperidino-3-pyridyl
NH	n-pentyl	ОН	6-piperidino-3-pyridyl
NH	n-pentyl	ОН	2-morpholino-3-pyridyl
NH	n-pentyl	ОН	4-morpholino-3-pyridyl

Table 1 (continued)

		(	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	ОН	5-morpholino-3-pyridyl
NH	n-pentyl	ОН	6-morpholino-3-pyridyl
NH	n-pentyl	ОН	2-hydroxy-3-pyridyl
NH	n-pentyl	ОН	4-hydroxy-3-pyridyl
NH	n-pentyl	ОН	5-hydroxy-3-pyridyl
NH	n-pentyl	ОН	6-hydroxy-3-pyridyl
NH	n-pentyl	ОН	2-mercapto-3-pyridyl
NH	n-pentyl	ОН	4-mercapto-3-pyridyl
NH	n-pentyl	ОН	5-mercapto-3-pyridyl
NH	n-pentyl	ОН	6-mercapto-3-pyridyl
NH	n-pentyl	ОН	2-methylthio-3-pyridyl
NH	n-pentyl	ОН	4-methylthio-3-pyridyl
NH	n-pentyl	ОН	5-methylthio-3-pyridyl
NH	n-pentyl	ОН	6-methylthio-3-pyridyl
NH	n-pentyl	ОН	2,6-dimethyl-3-pyridyl
NH	n-pentyl	ОН	5,6-dimethyl-3-pyridyl
NH	n-pentyl	ОН	2,6-diethyl-3-pyridyl
NH	n-pentyl	ОН	5,6-diethyl-3-pyridyl
NH	n-pentyl	ОН	2,6-dimethoxy-3-pyridyl
NH	n-pentyl	ОН	5,6-dimethoxy-3-pyridyl
NH	n-pentyl	ОН	2,6-diethoxy-3-pyridyl
NH	n-pentyl	ОН	5,6-diethoxy-3-pyridyl
NH	n-pentyl	ОН	2,6-dichloro-3-pyridyl
NH	n-pentyl	ОН	5,6-dichloro-3-pyridyl
NH	n-pentyl	ОН	5-chloro-6-methoxy-3-pyridyl
NH	n-pentyl	ОН	5-chloro-6-ethoxy-3-pyridyl
NH	n-pentyl	ОН	2-chloro-6-methyl-3-pyridyl
NH	n-pentyl	ОН	6-chloro-2-methyl-3-pyridyl
NH	n-pentyl	ОН	2-methyl-4-pyridyl
NH	n-pentyl	ОН	2-ethyl-4-pyridyl
NH	n-pentyl	ОН	2-methoxy-4-pyridyl
NH	n-pentyl	ОН	2-ethoxy-4-pyridyl
NH	n-pentyl	ОН	2-chloro-4-pyridyl
NH	n-pentyl	ОН	2-dimethylamino-4-pyridyl
NH	n-pentyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-pentyl	ОН	2-piperidino-4-pyridyl
NH	n-pentyl	ОН	2-morpholino-4-pyridyl
NH	n-pentyl	ОН	2-methylthio-4-pyridyl

Table 1 (continued)

		(	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	ОН	2-pyrazinyl
NH	n-pentyl	ОН	5-methyl-2-pyrazinyl
NH	n-pentyl	ОН	5-ethyl-2-pyrazinyl
NH	n-pentyl	ОН	5-methoxy-2-pyrazinyl
NH	n-pentyl	ОН	5-ethoxy-2-pyrazinyl
NH	n-pentyl	ОН	5-chloro-2-pyrazinyl
NH	n-pentyl	ОН	6-methyl-2-pyrazinyl
NH	n-pentyl	ОН	6-methoxy-2-pyrazinyl
NH	n-pentyl	ОН	6-chloro-2-pyrazinyl
NH	n-pentyl	OCOOMe	2-pyridyl
NH	n-pentyl	OCOOMe	3-pyridyl
NH	n-pentyl	OCOOMe	4-pyridyl
NH	n-pentyl	OCOOMe	2-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	4-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	5-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	6-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	6-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	2-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	6-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	4-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	4-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	5-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	6-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl

Table 1 (continued)

		1000)	•
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	2-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	4-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	5-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	2-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	4-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	6-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl

Table 1 (continued)

			,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	2-methyl-4-pyridyl
NH	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
NH	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
NH	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl
NH	n-pentyl	OCOOMe	2-chloro-4-pyridyl
NH	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
NH	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
NH	n-pentyl	OCOOMe	2-methylthio-4-pyridyl
NH	n-pentyl	OCOOMe	2-pyrazinyl
NH	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl
NH	n-pentyl	OCOOEt	2-pyridyl
NH	n-pentyl	OCOOEt	3-pyridyl
NH	n-pentyl	OCOOEt	4-pyridyl
NH	n-pentyl	OCOOEt	2-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	4-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	5-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	4-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-ethoxy-3-pyridyl

Table 1 (continued)

		`	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-pentyl	OCOOEt	5-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	4-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	5-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	6-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	2-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	4-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	5-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	6-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	2-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	4-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	5-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	6-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	2-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	4-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	5-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	6-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	2-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	5-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	6-methylthio-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-methyl-4-pyridyl
NH	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
NH	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
NH	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-4-pyridyl
NH	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
NH	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
NH	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
NH	n-pentyl	OCOOEt	2-pyrazinyl
NH	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
NH	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
NH	n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOEt	6-chloro-2-pyrazinyl
0	propyl	ОН	2-pyridyl
0	propyl	ОН	3-pyridyl
0	propyl	ОН	4-pyridyl
0	propyl	ОН	2-methyl-3-pyridyl
0	propyl	ОН	4-methyl-3-pyridyl

Table 1 (continued)

		1001	unacaj
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	ОН	5-methyl-3-pyridyl
0	propyl	ОН	6-methyl-3-pyridyl
0	propyl	ОН	2-ethyl-3-pyridyl
0	propyl	ОН	4-ethyl-3-pyridyl
0	propyl	ОН	5-ethyl-3-pyridyl
0	propyl	ОН	6-ethyl-3-pyridyl
0	propyl	ОН	2-methoxy-3-pyridyl
0	propyl	ОН	4-methoxy-3-pyridyl
0	propyl	ОН	5-methoxy-3-pyridyl
0	propyl	ОН	6-methoxy-3-pyridyl
0	propyl	ОН	2-ethoxy-3-pyridyl
0	propyl	ОН	4-ethoxy-3-pyridyl
0	propyl	ОН	5-ethoxy-3-pyridyl
0	propyl	ОН	6-ethoxy-3-pyridyl
0	propyl	ОН	2-chloro-3-pyridyl
0	propyl	ОН	4-chloro-3-pyridyl
0	propyl	ОН	5-chloro-3-pyridyl
0	propyl	ОН	6-chloro-3-pyridyl
0	propyl	ОН	2-fluoro-3-pyridyl
0	propyl	ОН	4-fluoro-3-pyridyl
0	propyl	ОН	5-fluoro-3-pyridyl
0	propyl	ОН	6-fluoro-3-pyridyl
0	propyl	ОН	2-dimethylamino-3-pyridyl
0	propyl	ОН	4-dimethylamino-3-pyridyl
0	propyl	ОН	5-dimethylamino-3-pyridyl
0	propyl	ОН	6-dimethylamino-3-pyridyl
0	propyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
0	propyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
0	propyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
0	propyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	propyl	ОН	2-piperidino-3-pyridyl
0	propyl	ОН	4-piperidino-3-pyridyl
0	propyl	ОН	5-piperidino-3-pyridyl
0	propyl	ОН	6-piperidino-3-pyridyl
0	propyl	ОН	2-morpholino-3-pyridyl
0	propyl	ОН	4-morpholino-3-pyridyl
0	propyl	ОН	5-morpholino-3-pyridyl
0	propyl	ОН	6-morpholino-3-pyridyl
			<del>-</del>

Table 1 (continued)

X O O O O O	R <sup>1</sup> propyl propyl propyl	R <sup>2</sup> OH OH	Y 2-hydroxy-3-pyridyl 4-hydroxy-3-pyridyl
0 0 0 0	propyl propyl propyl	ОН	4-hydroxy-3-pyridyl
0 0 0	propyl propyl		
0 0	propyl	ОН	E hardinan O madelal
0			5-hydioxy-3-pyridyl
0	m wa ma vil	ОН	6-hydroxy-3-pyridyl
$\vdash$	propyl	ОН	2-mercapto-3-pyridyl
0	propyl	ОН	4-mercapto-3-pyridyl
	propyl	ОН	5-mercapto-3-pyridyl
0	propyl	ОН	6-mercapto-3-pyridyl
0	propyl	ОН	2-methylthio-3-pyridyl
0	propyl	ОН	4-methylthio-3-pyridyl
0	propyl	ОН	5-methylthio-3-pyridyl
0	propyl	ОН	6-methylthio-3-pyridyl
0	propyl	ОН	2,6-dimethyl-3-pyridyl
0	propyl	ОН	5,6-dimethyl-3-pyridyl
0	propyl	ОН	2,6-diethyl-3-pyridyl
0	propyl	ОН	5,6-diethyl-3-pyridyl
0	propyl	ОН	2,6-dimethoxy-3-pyridyl
0	propyl	ОН	5,6-dimethoxy-3-pyridyl
0	propyl	ОН	2,6-diethoxy-3-pyridyl
0	propyl	ОН	5,6-diethoxy-3-pyridyl
0	propyl	ОН	2,6-dichloro-3-pyridyl
0	propyl	ОН	5,6-dichloro-3-pyridyl
0	propyl	ОН	5-chloro-6-methoxy-3-pyridyl
0	propyl	ОН	5-chloro-6-ethoxy-3-pyridyl
0	propyl	ОН	2-chloro-6-methyl-3-pyridyl
0	propyl	ОН	6-chloro-2-methyl-3-pyridyl
0	propyl	ОН	2-methyl-4-pyridyl
0	propyl	ОН	2-ethyl-4-pyridyl
0	propyl	ОН	2-methoxy-4-pyridyl
0	propyl	ОН	2-ethoxy-4-pyridyl
0	propyl	ОН	2-chloro-4-pyridyl
0	propyl	ОН	2-dimethylamino-4-pyridyl
0	propyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
0	propyl	ОН	2-piperidino-4-pyridyl
0	propyl	ОН	2-morpholino-4-pyridyl
0	propyl	ОН	2-methylthio-4-pyridyl
0	propyl	ОН	2-pyrazinyl
0	propyl	ОН	5-methyl-2-pyrazinyl

Table 1 (continued)

X       R1       R2       Y         O       propyl       OH       5-ethyl-2-pyrazinyl         O       propyl       OH       5-methoxy-2-pyrazinyl         O       propyl       OH       5-ethoxy-2-pyrazinyl         O       propyl       OH       6-methyl-2-pyrazinyl         O       propyl       OH       6-methoxy-2-pyrazinyl         O       propyl       OH       6-chloro-2-pyrazinyl         O       propyl       OCOOMe       2-pyridyl         O       propyl       OCOOMe       3-pyridyl         O       propyl       OCOOMe       4-pyridyl         O       propyl       OCOOMe       2-methyl-3-pyridyl         O       propyl       OCOOMe       5-methyl-3-pyridyl         O       propyl       OCOOMe       6-methyl-3-pyridyl         O       propyl       OCOOMe       4-ethyl-3-pyridyl         O       propyl       OCOOMe       5-ethyl-3-pyridyl         O       propyl       OCOOMe       6-ethyl-3-pyridyl         O       propyl       OCOOMe       6-ethyl-3-pyridyl         O       propyl       OCOOMe       2-methoxy-3-pyridyl         O       propyl	I
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O propyl OCOOMe 4-ethoxy-3-pyridyl	
O propyl OCOOMe 5-ethoxy-3-pyridyl	
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O propyl OCOOMe 6-ethoxy-3-pyridyl	
O propyl OCOOMe 2-chloro-3-pyridyl	
O propyl OCOOMe 4-chloro-3-pyridyl	
O propyl OCOOMe 5-chloro-3-pyridyl	
O propyl OCOOMe 6-chloro-3-pyridyl	
O propyl OCOOMe 2-fluoro-3-pyridyl	
O propyl OCOOMe 4-fluoro-3-pyridyl	
O propyl OCOOMe 5-fluoro-3-pyridyl	
O propyl OCOOMe 6-fluoro-3-pyridyl	
O propyl OCOOMe 2-dimethylamino-3-pyri	lyb
O propyl OCOOMe 4-dimethylamino-3-pyri	lyl
O propyl OCOOMe 5-dimethylamino-3-pyri	
O propyl OCOOMe 6-dimethylamino-3-pyri	lyb

Table 1 (continued)

		10001 (0011	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	propyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	2-piperidino-3-pyridyl
0	propyl	OCOOMe	4-piperidino-3-pyridyl
0	propyl	OCOOMe	5-piperidino-3-pyridyl
0	propyl	OCOOMe	6-piperidino-3-pyridyl
0	propyl	OCOOMe	2-morpholino-3-pyridyl
0	propyl	OCOOMe	4-morpholino-3-pyridyl
0	propyl	OCOOMe	5-morpholino-3-pyridyl
0	propyl	OCOOMe	6-morpholino-3-pyridyl
0	propyl	OCOOMe	2-hydroxy-3-pyridyl
0	propyl	OCOOMe	4-hydroxy-3-pyridyl
0	propyl	OCOOMe	5-hydroxy-3-pyridyl
0	propyl	OCOOMe	6-hydroxy-3-pyridyl
0	propyl	OCOOMe	2-mercapto-3-pyridyl
0	propyl	OCOOMe	4-mercapto-3-pyridyl
0	propyl	OCOOMe	5-mercapto-3-pyridyl
0	propyl	OCOOMe	6-mercapto-3-pyridyl
0	propyl	OCOOMe	2-methylthio-3-pyridyl
0	propyl	OCOOMe	4-methylthio-3-pyridyl
0	propyl	OCOOMe	5-methylthio-3-pyridyl
0	propyl	OCOOMe	6-methylthio-3-pyridyl
0	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
0	propyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	propyl	OCOOMe	2,6-diethyl-3-pyridyl
0	propyl	OCOOMe	5,6-diethyl-3-pyridyl
0	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	propyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	propyl	OCOOMe	2,6-dichloro-3-pyridyl
0	propyl	OCOOMe	5,6-dichloro-3-pyridyl
0	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
0	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl

Table 1 (continued)

		Table 1 (com	indea)
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	propyl	OCOOMe	2-methyl-4-pyridyl
0	propyl	OCOOMe	2-ethyl-4-pyridyl
0	propyl	OCOOMe	2-methoxy-4-pyridyl
0	propyl	OCOOMe	2-ethoxy-4-pyridyl
0	propyl	OCOOMe	2-chloro-4-pyridyl
0	propyl	OCOOMe	2-dimethylamino-4-pyridyl
0	propyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
0	propyl	OCOOMe	2-piperidino-4-pyridyl
0	propyl	OCOOMe	2-morpholino-4-pyridyl
0	propyl	OCOOMe	2-methylthio-4-pyridyl
0	propyl	OCOOMe	2-pyrazinyl
0	propyl	OCOOMe	5-methyl-2-pyrazinyl
0	propyl	OCOOMe	5-ethyl-2-pyrazinyl
0	propyl	OCOOMe	5-methoxy-2-pyrazinyl
0	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
0	propyl	OCOOMe	5-chloro-2-pyrazinyl
0	propyl	OCOOMe	6-methyl-2-pyrazinyl
0	propyl	OCOOMe	6-methoxy-2-pyrazinyl
0	propyl	OCOOMe	6-chloro-2-pyrazinyl
0	propyl	OCOOEt	2-pyridyl
0	propyl	OCOOEt	3-pyridyl
0	propyl	OCOOEt	4-pyridyl
0	propyl	OCOOEt	2-methyl-3-pyridyl
0	propyl	OCOOEt	4-methyl-3-pyridyl
0	propyl	OCOOEt	5-methyl-3-pyridyl
0	propyl	OCOOEt	6-methyl-3-pyridyl
0	propyl	OCOOEt	2-ethyl-3-pyridyl
0	propyl	OCOOEt	4-ethyl-3-pyridyl
0	propyl	OCOOEt	5-ethyl-3-pyridyl
0	propyl	OCOOEt	6-ethyl-3-pyridyl
0	propyl	OCOOEt	2-methoxy-3-pyridyl
0	propyl	OCOOEt	4-methoxy-3-pyridyl
0	propyl	OCOOEt	5-methoxy-3-pyridyl
0	propyl	OCOOEt	6-methoxy-3-pyridyl
0	propyl	OCOOEt	2-ethoxy-3-pyridyl
0	propyl	OCOOEt	4-ethoxy-3-pyridyl
0	propyl	OCOOEt	5-ethoxy-3-pyridyl
0	propyl	OCOOEt	6-ethoxy-3-pyridyl

Table 1 (continued)

		Table 1 (com	
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	OCOOEt	2-chloro-3-pyridyl
0	propyl	OCOOEt	4-chloro-3-pyridyl
0	propyl	OCOOEt	5-chloro-3-pyridyl
0	propyl	OCOOEt	6-chloro-3-pyridyl
0	propyl	OCOOEt	2-fluoro-3-pyridyl
0	propyl	OCOOEt	4-fluoro-3-pyridyl
0	propyl	OCOOEt	5-fluoro-3-pyridyl
0	propyl	OCOOEt	6-fluoro-3-pyridyl
0	propyl	OCOOEt	2-dimethylamino-3-pyridyl
0	propyl	OCOOEt	4-dimethylamino-3-pyridyl
0	propyl	OCOOEt	5-dimethylamino-3-pyridyl
0	. propyl	OCOOEt	6-dimethylamino-3-pyridyl
0	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	2-piperidino-3-pyridyl
0	propyl	OCOOEt	4-piperidino-3-pyridyl
0	propyl	OCOOEt	5-piperidino-3-pyridyl
0	propyl	OCOOEt	6-piperidino-3-pyridyl
0	propyl	OCOOEt	2-morpholino-3-pyridyl
0	propyl	OCOOEt	4-morpholino-3-pyridyl
0	propyl	OCOOEt	5-morpholino-3-pyridyl
0	propyl	OCOOEt	6-morpholino-3-pyridyl
0	propyl	OCOOEt	2-hydroxy-3-pyridyl
0	propyl	OCOOEt	4-hydroxy-3-pyridyl
0	propyl	OCOOEt	5-hydroxy-3-pyridyl
0	propyl	OCOOEt	6-hydroxy-3-pyridyl
0	propyl	OCOOEt	2-mercapto-3-pyridyl
0	propyl	OCOOEt	4-mercapto-3-pyridyl
0	propyl	OCOOEt	5-mercapto-3-pyridyl
0	propyl	OCOOEt	6-mercapto-3-pyridyl
0	propyl	OCOOEt	2-methylthio-3-pyridyl
0	propyl	OCOOEt	4-methylthio-3-pyridyl
0	propyl	OCOOEt	5-methylthio-3-pyridyl
0	propyl	OCOOEt	6-methylthio-3-pyridyl
0	propyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	propyl	OCOOEt	5,6-dimethyl-3-pyridyl
	1	1	ı

Table 1 (continued)

		Table 1 (con	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	OCOOEt	2,6-diethyl-3-pyridyl
0	propyl	OCOOEt	5,6-diethyl-3-pyridyl
0	propyl	OCOOEt	2,6-dimethoxy-3-pyridyl
0	propyl	OCOOEt	5,6-dimethoxy-3-pyridyl
0	propyl	OCOOEt	2,6-diethoxy-3-pyridyl
0	propyl	OCOOEt	5,6-diethoxy-3-pyridyl
0	propyl	OCOOEt	2,6-dichloro-3-pyridyl
0	propyl	OCOOEt	5,6-dichloro-3-pyridyl
0	propyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
0	propyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
0	propyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
0	propyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
0	propyl	OCOOEt	2-methyl-4-pyridyl
0	propyl	OCOOEt	2-ethyl-4-pyridyl
0	propyl	OCOOEt	2-methoxy-4-pyridyl
0	propyl	OCOOEt	2-ethoxy-4-pyridyl
0	propyl	OCOOEt	2-chloro-4-pyridyl
0	propyl	OCOOEt	2-dimethylamino-4-pyridyl
0	propyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	propyl	OCOOEt	2-piperidino-4-pyridyl
0	propyl	OCOOEt	2-morpholino-4-pyridyl
0	propyl	OCOOEt	2-methylthio-4-pyridyl
0	propyl	OCOOEt	2-pyrazinyl
0	propyl	OCOOEt	5-methyl-2-pyrazinyl
0	propyl	OCOOEt	5-ethyl-2-pyrazinyl
0	propyl	OCOOEt	5-methoxy-2-pyrazinyl
0	propyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	propyl	OCOOEt	5-chloro-2-pyrazinyl
0	propyl	OCOOEt	6-methyl-2-pyrazinyl
0	propyl	OCOOEt	6-methoxy-2-pyrazinyl
0	propyl	OCOOEt	6-chloro-2-pyrazinyl
0	n-butyl	ОН	2-pyridyl
0	n-butyl	ОН	3-pyridyl
0	n-butyl	ОН	4-pyridyl
0	n-butyl	ОН	2-methyl-3-pyridyl
0	n-butyl	ОН	4-methyl-3-pyridyl
0	n-butyl	ОН	5-methyl-3-pyridyl
0	n-butyl	ОН	6-methyl-3-pyridyl
	1	1	1

Table 1 (continued)

X 0 0	R <sup>1</sup> n-butyl n-butyl	R <sup>2</sup> OH	Y 2-ethyl-3-pyridyl
0			2-ethyl-3-pyridyl
	n-butyl		
0	•	OH	4-ethyl-3-pyridyl
	n-butyl	ОН	5-ethyl-3-pyridyl
0	n-butyl	ОН	6-ethyl-3-pyridyl
0	n-butyl	ОН	2-methoxy-3-pyridyl
0	n-butyl	ОН	4-methoxy-3-pyridyl
0	n-butyl	ОН	5-methoxy-3-pyridyl
0	n-butyl	ОН	6-methoxy-3-pyridyl
0	n-butyl	ОН	2-ethoxy-3-pyridyl
0	n-butyl	ОН	4-ethoxy-3-pyridyl
0	n-butyl	ОН	5-ethoxy-8-pyridyl
0	n-butyl	ОН	6-ethoxy-3-pyridyl
0	n-butyl	ОН	2-chloro-3-pyridyl
0	n-butyl	ОН	4-chloro-3-pyridyl
0	n-butyl	ОН	5-chloro-3-pyridyl
0	n-butyl	ОН	6-chloro-3-pyridyl
0	n-butyl	ОН	2-fluoro-3-pyridyl
0	n-butyl	ОН	4-fluoro-3-pyridyl
0	n-butyl	ОН	5-fluoro-3-pyridyl
0	n-butyl	ОН	6-fluoro-3-pyridyl
0	n-butyl	ОН	2-dimethylamino-8-pyridyl
0	n-butyl	ОН	4-dimethylamino-3-pyridyl
0	n-butyl	ОН	5-dimethylamino-3-pyridyl
0	n-butyl	ОН	6-dimethylamino-3-pyridyl
0	n-butyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OH	2-piperidino-3-pyridyl
0	n-butyl	ОН	4-piperidino-3-pyridyl
0	n-butyl	ОН	5-piperidino-3-pyridyl
0	n-butyl	ОН	6-piperidino-3-pyridyl
0	n-butyl	ОН	2-morpholino-3-pyridyl
0	n-butyl	ОН	4-morpholino-3-pyridyl
0	n-butyl	ОН	5-morpholino-3-pyridyl
	n-butyl	ОН	6-morpholino-3-pyridyl
0			
0	n-butyl	ОН	2-hydroxy-3-pyridyl

Table 1 (continued)

Х			
1	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-butyl	ОН	5-hydroxy-3-pyridyl
0	n-butyl	ОН	6-hydroxy-3-pyridyl
0	n-butyl	ОН	2-mercapto-3-pyridyl
0	n-butyl	ОН	4-mercapto-3-pyridyl
0	n-butyl	ОН	5-mercapto-3-pyridyl
0	n-butyl	ОН	6-mercapto-3-pyridyl
0	n-butyl	ОН	2-methylthio-3-pyridyl
0	n-butyl	ОН	4-methylthio-3-pyridyl
0	n-butyl	ОН	5-methylthio-3-pyridyl
0	n-butyl	ОН	6-methylthio-3-pyridyl
0	n-butyl	ОН	2,6-dimethyl-3-pyridyl
0	n-butyl	ОН	5,6-dimethyl-3-pyridyl
0	n-butyl	ОН	2,6-diethyl-3-pyridyl
0	n-butyl	ОН	5,6-diethyl-3-pyridyl
0	n-butyl	ОН	2,6-dimethoxy-3-pyridyl
0	n-butyl	ОН	5,6-dimethoxy-3-pyridyl
0	n-butyl	ОН	2,6-diethoxy-3-pyridyl
0	n-butyl	ОН	5,6-diethoxy-3-pyridyl
0	n-butyl	ОН	2,6-dichloro-3-pyridyl
0	n-butyl	ОН	5,6-dichloro-3-pyridyl
0	n-butyl	ОН	5-chloro-6-methoxy-3-pyridyl
0	n-butyl	ОН	5-chloro-6-ethoxy-3-pyridyl
0	n-butyl	ОН	2-chloro-6-methyl-3-pyridyl
0	n-butyl	ОН	6-chloro-2-methyl-3-pyridyl
0	n-butyl	ОН	2-methyl-4-pyridyl
0	n-butyl	ОН	2-ethyl-4-pyridyl
0	n-butyl	ОН	2-methoxy-4-pyridyl
0	n-butyl	ОН	2-ethoxy-4-pyridyl
0	n-butyl	ОН	2-chloro-4-pyridyl
0	n-butyl	ОН	2-dimethylamino-4-pyridyl
0	n-butyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	ОН	2-piperidino-4-pyridyl
0	n-butyl	ОН	2-morpholino-4-pyridyl
0	n-butyl	ОН	2-methylthio-4-pyridyl
0	n-butyl	ОН	2-pyrazinyl
-	n-butyl	ОН	5-methyl-2-pyrazinyl
0			
0	n-butyl	ОН	5-ethyl-2-pyrazinyl

Table 1 (continued)

		illoo) i oldai	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-butyl	ОН	5-ethoxy-2-pyrazinyl
0	n-butyl	ОН	5-chloro-2-pyrazinyl
0	n-butyl	ОН	6-methyl-2-pyrazinyl
0	n-butyl	ОН	6-methoxy-2-pyrazinyl
0	n-butyl	ОН	6-chloro-2-pyrazinyl
0	n-butyl	OCOOMe	2-pyridyl
0	n-butyl	OCOOMe	3-pyridyl
0	n-butyl	OCOOMe	4-pyridyl
0	n-butyl	OCOOMe	2-methyl-3-pyridyl
0	n-butyl	OCOOMe	4-methyl-3-pyridyl
0	n-butyl	OCOOMe	5-methyl-3-pyridyl
0	n-butyl	OCOOMe	6-methyl-3-pyridyl
0	n-butyl	OCOOMe	2-ethyl-3-pyridyl
0	n-butyl	OCOOMe	4-ethyl-3-pyridyl
0	n-butyl	OCOOMe	5-ethyl-3-pyridyl
0	n-butyl	OCOOMe	6-ethyl-3-pyridyl
0	n-butyl	OCOOMe	2-methoxy-3-pyridyl
0	n-butyl	OCOOMe	4-methoxy-3-pyridyl
0	n-butyl	OCOOMe	5-methoxy-3-pyridyl
0	n-butyl	OCOOMe	6-methoxy-3-pyridyl
0	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	2-chloro-3-pyridyl
0	n-butyl	OCOOMe	4-chloro-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-3-pyridyl
0	n-butyl	OCOOMe	6-chloro-3-pyridyl
0	n-butyl	OCOOMe	2-fluoro-3-pyridyl
0	n-butyl	OCOOMe	4-fluoro-3-pyridyl
0	n-butyl	OCOOMe	5-fluoro-3-pyridyl
0	n-butyl	OCOOMe	6-fluoro-3-pyridyl
0	n-butyl	OCOOMe	2-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	5-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	6-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
			<u> </u>

Table 1 (continued)

X 0	R <sup>1</sup> n-butyl	R <sup>2</sup>	Y
$\vdash$	n-butyl		
	ii batyi	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
1 ~ 1	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOMe	2-piperidino-3-pyridyl
0	n-butyl	OCOOMe	4-piperidino-3-pyridyl
0	n-butyl	OCOOMe	5-piperidino-3-pyridyl
0	n-butyl	OCOOMe	6-piperidino-3-pyridyl
0	n-butyl	OCOOMe	2-morpholino-3-pyridyl
0	n-butyl	OCOOMe	4-morpholino-3-pyridyl
0	n-butyl	OCOOMe	5-morpholino-3-pyridyl
0	n-butyl	OCOOMe	6-morpholino-3-pyridyl
0	n-butyl	OCOOMe	2-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	6-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	2-mercapto-3-pyridyl
0	n-butyl	OCOOMe	4-mercapto-3-pyridyl
0	n-butyl	OCOOMe	5-mercapto-3-pyridyl
0	n-butyl	OCOOMe	6-mercapto-3-pyridyl
0	n-butyl	OCOOMe	2-methylthio-3-pyridyl
0	n-butyl	OCOOMe	4-methylthio-3-pyridyl
0	n-butyl	OCOOMe	5-methylthio-3-pyridyl
0	n-butyl	OCOOMe	6-methylthio-3-pyridyl
0	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
0	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
0	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
0	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
0	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
0	n-butyl	OCOOMe	2-methyl-4-pyridyl
0	n-butyl	OCOOMe	2-ethyl-4-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-butyl	OCOOMe	2-methoxy-4-pyridyl
0	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
0	n-butyl	OCOOMe	2-chloro-4-pyridyl
0	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
0	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	OCOOMe	2-piperidino-4-pyridyl
0	n-butyl	OCOOMe	2-morpholino-4-pyridyl
0	n-butyl	OCOOMe	2-methylthio-4-pyridyl
0	n-butyl	OCOOMe	2-pyrazinyl
0	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
0	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
0	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
0	n-butyl	OCOOMe	5-ethoxy-2-pyrazinyl
0	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
0	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
0	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
0	n-butyl	OCOOMe	6-chloro-2-pyrazinyl
0	n-butyl	OCOOEt	2-pyridyl
0	n-butyl	OCOOEt	3-pyridyl
0	n-butyl	OCOOEt	4-pyridyl
0	n-butyl	OCOOEt	2-methyl-3-pyridyl
0	n-butyl	OCOOEt	4-methyl-3-pyridyl
0	n-butyl	OCOOEt	5-methyl-3-pyridyl
0	n-butyl	OCOOEt	6-methyl-3-pyridyl
0	n-butyl	OCOOEt	2-ethyl-3-pyridyl
0	n-butyl	OCOOEt	4-ethyl-3-pyridyl
0	n-butyl	OCOOEt	5-ethyl-3-pyridyl
0	n-butyl	OCOOEt	6-ethyl-3-pyridyl
0	n-butyl	OCOOEt	2-methoxy-3-pyridyl
0	n-butyl	OCOOEt	4-methoxy-3-pyridyl
0	n-butyl	OCOOEt	5-methoxy-3-pyridyl
0	n-butyl	OCOOEt	6-methoxy-3-pyridyl
0	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	5-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	2-chloro-3-pyridyl
$\vdash$	n-butyl	OCOOEt	4-chloro-3-pyridyl

Table 1 (continued)

		Table 1 (com	
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-butyl	OCOOEt	5-chloro-3-pyridyl
0	n-butyl	OCOOEt	6-chloro-3-pyridyl
0	n-butyl	OCOOEt	2-fluoro-3-pyridyl
0	n-butyl	OCOOEt	4-fluoro-3-pyridyl
0	n-butyl	OCOOEt	5-fluoro-3-pyridyl
0	n-butyl	OCOOEt	6-fluoro-3-pyridyl
0	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	5-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOEt	2-piperidino-3-pyridyl
0	n-butyl	OCOOEt	4-piperidino-3-pyridyl
0	n-butyl	OCOOEt	5-piperidino-3-pyridyl
0	n-butyl	OCOOEt	6-piperidino-3-pyridyl
0	n-butyl	OCOOEt	2-morpholino-3-pyridyl
0	n-butyl	OCOOEt	4-morpholino-3-pyridyl
0	n-butyl	OCOOEt	5-morpholino-3-pyridyl
0	n-butyl	OCOOEt	6-morpholino-3-pyridyl
0	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	6-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	2-mercapto-3-pyridyl
0	n-butyl	OCOOEt	4-mercapto-3-pyridyl
0	n-butyl	OCOOEt	5-mercapto-3-pyridyl
0	n-butyl	OCOOEt	6-mercapto-3-pyridyl
0	n-butyl	OCOOEt	2-methylthio-3-pyridyl
0	n-butyl	OCOOEt	4-methylthio-3-pyridyl
0	n-butyl	OCOOEt	5-methylthio-3-pyridyl
0	n-butyl	OCOOEt	6-methylthio-3-pyridyl
0	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
0	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
0	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
		1	I

Table 1 (continued)

X O O O O O O O O O	R <sup>1</sup> n-butyl	R2 OCOOEt	Y 2,6-dimethoxy-3-pyridyl 5,6-dimethoxy-3-pyridyl 2,6-diethoxy-3-pyridyl 5,6-diethoxy-3-pyridyl 2,6-dichloro-3-pyridyl 5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
	n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	5,6-dimethoxy-3-pyridyl 2,6-diethoxy-3-pyridyl 5,6-diethoxy-3-pyridyl 2,6-dichloro-3-pyridyl 5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
	n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	2,6-diethoxy-3-pyridyl 5,6-diethoxy-3-pyridyl 2,6-dichloro-3-pyridyl 5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0 0 0 0 0	n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	5,6-diethoxy-3-pyridyl 2,6-dichloro-3-pyridyl 5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0 0 0 0	n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	2,6-dichloro-3-pyridyl 5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0 0 0 0	n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	5,6-dichloro-3-pyridyl 5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0 0 0	n-butyl n-butyl n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt OCOOEt OCOOEt	5-chloro-6-methoxy-3-pyridyl 5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0 0 0	n-butyl n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt OCOOEt	5-chloro-6-ethoxy-3-pyridyl 2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0	n-butyl n-butyl n-butyl n-butyl	OCOOEt OCOOEt	2-chloro-6-methyl-3-pyridyl 6-chloro-2-methyl-3-pyridyl
0 0	n-butyl n-butyl n-butyl	OCOOEt OCOOEt	6-chloro-2-methyl-3-pyridyl
0	n-butyl n-butyl	OCOOEt	
0	n-butyl	-	O mothyd 4 myridd
		-	2-methyl-4-pyridyl
0		OCOOEt	2-ethyl-4-pyridyl
	n-butyl	OCOOEt	2-methoxy-4-pyridyl
0	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
0	n-butyl	OCOOEt	2-chloro-4-pyridyl
0	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
0	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	OCOOEt	2-piperidino-4-pyridyl
0	n-butyl	OCOOEt	2-morpholino-4-pyridyl
0	n-butyl	OCOOEt	2-methylthio-4-pyridyl
0	n-butyl	OCOOEt	2-pyrazinyl
0	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
0	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
0	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
0	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
0	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
0	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
0	n-butyl	OCOOEt	6-chloro-2-pyrazinyl
0	n-pentyl	ОН	2-pyridyl
0	n-pentyl	ОН	3-pyridyl
0	n-pentyl	ОН	4-pyridyl
0	n-pentyl	ОН	2-methyl-3-pyridyl
0	n-pentyl	ОН	4-methyl-3-pyridyl
0	n-pentyl	ОН	5-methyl-3-pyridyl
0	n-pentyl	ОН	6-methyl-3-pyridyl
0	n-pentyl	ОН	2-ethyl-3-pyridyl
0	n-pentyl	ОН	4-ethyl-3-pyridyl

Table 1 (continued)

X O O O O O O O O	R <sup>1</sup> n-pentyl	R <sup>2</sup> OH	Y 5-ethyl-3-pyridyl 6-ethyl-3-pyridyl 2-methoxy-3-pyridyl 4-methoxy-3-pyridyl 5-methoxy-3-pyridyl 6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl 4-ethoxy-3-pyridyl
0 0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OH OH OH OH OH	6-ethyl-3-pyridyl 2-methoxy-3-pyridyl 4-methoxy-3-pyridyl 5-methoxy-3-pyridyl 6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl
0 0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OH OH OH OH	2-methoxy-3-pyridyl 4-methoxy-3-pyridyl 5-methoxy-3-pyridyl 6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl
0 0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	ОН ОН ОН ОН	4-methoxy-3-pyridyl 5-methoxy-3-pyridyl 6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl
0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	ОН ОН ОН	5-methoxy-3-pyridyl 6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl
0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl	ОН ОН	6-methoxy-3-pyridyl 2-ethoxy-3-pyridyl
0 0 0 0	n-pentyl n-pentyl n-pentyl	OH OH	2-ethoxy-3-pyridyl
0 0 0	n-pentyl n-pentyl	ОН	
0 0	n-pentyl		4-ethoxy-3-pyridyl
0		ОН	- Guloky -O-pyridyi
0	n-pentyl		5-ethoxy-3-pyridyl
		ОН	6-ethoxy-3-pyridyl
	n-pentyl	ОН	2-chloro-3-pyridyl
1 7 1	n-pentyl	ОН	4-chloro-3-pyridyl
0	n-pentyl	ОН	5-chloro-3-pyridyl
0	n-pentyl	ОН	6-chloro-3-pyridyl
0	n-pentyl	ОН	2-fluoro-3-pyridyl
0	n-pentyl	ОН	4-fluoro-3-pyridyl
0	n-pentyl	ОН	5-fluoro-3-pyridyl
0	n-pentyl	ОН	6-fluoro-3-pyridyl
0	n-pentyl	ОН	2-dimethylamino-3-pyridyl
0	n-pentyl	ОН	4-dimethylamino-3-pyridyl
0	n-pentyl	ОН	5-dimethylamino-3-pyridyl
0	n-pentyl	ОН	6-dimethylamino-3-pyridyl
0	n-pentyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	ОН	2-piperidino-3-pyridyl
0	n-pentyl	ОН	4-piperidino-3-pyridyl
0	n-pentyl	ОН	5-piperidino-3-pyridyl
0	n-pentyl	ОН	6-piperidino-3-pyridyl
0	n-pentyl	ОН	2-morpholino-3-pyridyl
0	n-pentyl	ОН	4-morpholino-3-pyridyl
0	n-pentyl	ОН	5-morpholino-3-pyridyl
0	n-pentyl	ОН	6-morpholino-3-pyridyl
0	n-pentyl	ОН	2-hydroxy-3-pyridyl
0	n-pentyl	ОН	4-hydroxy-3-pyridyl
0	n-pentyl	ОН	5-hydroxy-3-pyridyl
0	n-pentyl	ОН	6-hydroxy-3-pyridyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-pentyl	ОН	2-mercapto-3-pyridyl
0	n-pentyl	ОН	4-mercapto-3-pyridyl
0	n-pentyl	ОН	5-mercapto-3-pyridyl
0	n-pentyl	ОН	6-mercapto-3-pyridyl
0	n-pentyl	ОН	2-methylthio-3-pyridyl
0	n-pentyl	ОН	4-methylthio-3-pyridyl
0	n-pentyl	ОН	5-methylthio-3-pyridyl
0	n-pentyl	ОН	6-methylthio-3-pyridyl
0	n-pentyl	ОН	2,6-dimethyl-3-pyridyl
0	n-pentyl	ОН	5,6-dimethyl-3-pyridyl
0	n-pentyl	ОН	2,6-diethyl-3-pyridyl
0	n-pentyl	ОН	5,6-diethyl-3-pyridyl
0	n-pentyl	ОН	2,6-dimethoxy-3-pyridyl
0	n-pentyl	ОН	5,6-dimethoxy-3-pyridyl
0	n-pentyl	ОН	2,6-diethoxy-3-pyridyl
0	n-pentyl	ОН	5,6-diethoxy-3-pyridyl
0	n-pentyl	ОН	2,6-dichloro-3-pyridyl
0	n-pentyl	ОН	5,6-dichloro-3-pyridyl
0	n-pentyl	ОН	5-chloro-6-methoxy-3-pyridyl
0	n-pentyl	ОН	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	ОН	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	ОН	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	ОН	2-methyl-4-pyridyl
0	n-pentyl	ОН	2-ethyl-4-pyridyl
0	n-pentyl	ОН	2-methoxy-4-pyridyl
0	n-pentyl	ОН	2-ethoxy-4-pyridyl
0	n-pentyl	ОН	2-chloro-4-pyridyl
0	n-pentyl	ОН	2-dimethylamino-4-pyridyl
0	n-pentyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	ОН	2-piperidino-4-pyridyl
0	n-pentyl	ОН	2-morpholino-4-pyridyl
0	n-pentyl	ОН	2-methylthio-4-pyridyl
0	n-pentyl	ОН	2-pyrazinyl
0	n-pentyl	ОН	5-methyl-2-pyrazinyl
0	n-pentyl	ОН	5-ethyl-2-pyrazinyl
0	n-pentyl	ОН	5-methoxy-2-pyrazinyl
0	n-pentyl	ОН	5-ethoxy-2-pyrazinyl
0	n-pentyl	OH	5-chloro-2-pyrazinyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-pentyl	ОН	6-methyl-2-pyrazinyl
0	n-pentyl	ОН	6-methoxy-2-pyrazinyl
0	n-pentyl	ОН	6-chloro-2-pyrazinyl
0	n-pentyl	OCOOMe	2-pyridyl
0	n-pentyl	OCOOMe	3-pyridyl
0	n-pentyl	OCOOMe	4-pyridyl
0	n-pentyl	OCOOMe	2-methyl-3-pyridyl
0	n-pentyl	OCOOMe	4-methyl-3-pyridyl
0	n-pentyl	OCOOMe	5-methyl-3-pyridyl
0	n-pentyl	OCOOMe	6-methyl-3-pyridyl
0	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	6-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	2-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	6-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	4-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-chloro-3-pyridyl
0	n-pentyl	OCOOMe	4-chloro-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-3-pyridyl
0	n-pentyl	OCOOMe	6-chloro-3-pyridyl
0	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	5-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	2-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	4-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	5-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	2-hydroxy-3-pyridyl
0	n-pentyl	OCOOMe	4-hydroxy-3-pyridyl
0	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
0	n-pentyl	OCOOMe	6-hydroxy-3-pyridyl
0	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
0	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
0	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	OCOOMe	2-methyl-4-pyridyl
0	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
0	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
$\vdash$	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl

Table 1 (continued)

		Table 1 (com	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-pentyl	OCOOMe	2-chloro-4-pyridyl
0	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
0	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
0	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
0	n-pentyl	OCOOMe	2-methylthio-4-pyridyl
0	n-pentyl	OCOOMe	2-pyrazinyl
0	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
0	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
0	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
0	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
0	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl
0	n-pentyl	OCOOEt	2-pyridyl
0	n-pentyl	OCOOEt	3-pyridyl
0	n-pentyl	OCOOEt	4-pyridyl
0	n-pentyl	OCOOEt	2-methyl-3-pyridyl
0	n-pentyl	OCOOEt	4-methyl-3-pyridyl
0	n-pentyl	OCOOEt	5-methyl-3-pyridyl
0	n-pentyl	OCOOEt	6-methyl-3-pyridyl
0	n-pentyl	OCOOEt	2-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	4-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	5-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	6-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	2-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	4-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	6-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	2-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	4-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	6-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2-chloro-3-pyridyl
0	n-pentyl	OCOOEt	4-chloro-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-3-pyridyl
0	n-pentyl	OCOOEt	6-chloro-3-pyridyl

Table 1 (continued)

		Table 1 (com	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-pentyl	OCOOEt	2-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	4-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	5-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	6-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	2-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	4-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	5-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	6-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	2-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	4-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	5-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	6-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	2-morpholino-3-pyridyl
0	n-pentyl	OCOOEt	4-morpholino-3-pyridyl
0	n-pentyl	OCOOEt	5-morpholino-3-pyridyl
0	n-pentyl	OCOOEt	6-morphalino-3-pyridyl
0	n-pentyl	OCOOEt	2-hydroxy-3-pyridyl
0	n-pentyl	OCOOEt	4-hydroxy-3-pyridyl
0	n-pentyl	OCOOEt	5-hydroxy-3-pyridyl
0	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl
0	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	5-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	6-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
0	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
	•	-	

Table 1 (continued)

		Table 1 (con	·
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	OCOOEt	2-methyl-4-pyridyl
0	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
0	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
0	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
0	n-pentyl	OCOOEt	2-chloro-4-pyridyl
0	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
0	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
0	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
0	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
0	n-pentyl	OCOOEt	2-pyrazinyl
0	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
0	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
0	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
0	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
0	n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	6-chloro-2-pyrazinyl
S	propyl	ОН	2-pyridyl
S	propyl	ОН	3-pyridyl
S	propyl	ОН	4-pyridyl
S	propyl	ОН	2-methyl-3-pyridyl
S	propyl	ОН	4-methyl-3-pyridyl
S	propyl	ОН	5-methyl-3-pyridyl
S	propyl	ОН	6-methyl-3-pyridyl
S	propyl	ОН	2-ethyl-3-pyridyl
S	propyl	ОН	4-ethyl-3-pyridyl
S	propyl	ОН	5-ethyl-3-pyridyl
S	propyl	ОН	6-ethyl-3-pyridyl
		1	I

Table 1 (continued)

X S S	R <sup>1</sup> propyl	R <sup>2</sup>	Y
S	propyl	011	
		OH	2-methoxy-3-pyridyl
$\overline{}$	propyl	ОН	4-methoxy-3-pyridyl
S	propyl	ОН	5-methoxy-3-pyridyl
S	propyl	ОН	6-methoxy-3-pyridyl
S	propyl	ОН	2-ethoxy-3-pyridyl
S	propyl	ОН	4-ethoxy-3-pyridyl
S	propyl	ОН	5-ethoxy-3-pyridyl
S	propyl	ОН	6-ethoxy-3-pyridyl
S	propyl	ОН	2-chloro-3-pyridyl
S	propyl	ОН	4-chloro-3-pyridyl
S	propyl	ОН	5-chloro-3-pyridyl
S	propyl	ОН	6-chloro-3-pyridyl
s	propyl	ОН	2-fluoro-3-pyridyl
s	propyl	ОН	4-fluoro-3-pyridyl
s	propyl	ОН	5-fluoro-3-pyridyl
s	propyl	ОН	6-fluoro-3-pyridyl
S	propyl	ОН	2-dimethylamino-3-pyridyl
s	propyl	ОН	4-dimethylamino-3-pyridyl
s	propyl	ОН	5-dimethylamino-3-pyridyl
S	propyl	ОН	6-dimethylamino-3-pyridyl
s	propyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
s	propyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
s	propyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
S	propyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	ОН	2-piperidino-3-pyridyl
S	propyl	ОН	4-piperidino-3-pyridyl
S	propyl	ОН	5-piperidino-3-pyridyl
S	propyl	ОН	6-piperidino-3-pyridyl
S	propyl	ОН	2-morpholino-3-pyridyl
S	propyl	ОН	4-morpholino-3-pyridyl
S	propyl	OII	5-morpholino-3-pyridyl
S	propyl	ОН	6-morpholino-3-pyridyl
S	propyl	ОН	2-hydroxy-3-pyridyl
s	propyl	ОН	4-hydroxy-3-pyridyl
S	propyl	ОН	5-hydroxy-3-pyridyl
S	propyl	ОН	6-hydroxy-3-pyridyl
S	propyl	ОН	2-mercapto-3-pyridyl
S	propyl	ОН	4-mercapto-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
S	propyl	ОН	5-mercapto-3-pyridyl
S	propyl	ОН	6-mercapto-3-pyridyl
S	propyl	ОН	2-methylthio-3-pyridyl
S	propyl	ОН	4-methylthio-3-pyridyl
S	propyl	ОН	5-methylthio-3-pyridyl
S	propyl	ОН	6-methylthio-3-pyridyl
S	propyl	ОН	2,6-dimethyl-3-pyridyl
S	propyl	ОН	5,6-dimethyl-3-pyridyl
S	propyl	ОН	2,6-diethyl-3-pyridyl
S	propyl	ОН	5,6-diethyl-3-pyridyl
S	propyl	ОН	2,6-dimethoxy-3-pyridyl
S	propyl	ОН	5,6-dimethoxy-3-pyridyl
S	propyl	ОН	2,6-diethoxy-3-pyridyl
S	propyl	ОН	5,6-diethoxy-3-pyridyl
S	propyl	ОН	2,6-dichloro-3-pyridyl
S	propyl	ОН	5,6-dichloro-3-pyridyl
S	propyl	ОН	5-chloro-6-methoxy-3-pyridyl
S	propyl	ОН	5-chloro-6-ethoxy-3-pyridyl
S	propyl	ОН	2-chloro-6-methyl-3-pyridyl
S	propyl	ОН	6-chloro-2-methyl-3-pyridyl
S	propyl	ОН	2-methyl-4-pyridyl
S	propyl	ОН	2-ethyl-4-pyridyl
S	propyl	ОН	2-methoxy-4-pyridyl
S	propyl	ОН	2-ethoxy-4-pyridyl
S	propyl	ОН	2-chloro-4-pyridyl
S	propyl	ОН	2-dimethylamino-4-pyridyl
S	propyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
S	propyl	ОН	2-piperidino-4-pyridyl
S	propyl	ОН	2-morpholino-4-pyridyl
S	propyl	ОН	2-methylthio-4-pyridyl
S	propyl	ОН	2-pyrazinyl
S	propyl	OH	5-methyl-2-pyrazinyl
S	propyl	ОН	5-ethyl-2-pyrazinyl
S	propyl	ОН	5-methoxy-2-pyrazinyl
S	propyl	ОН	5-ethoxy-2-pyrazinyl
S	propyl	ОН	5-chloro-2-pyrazinyl
S	propyl	ОН	6-methyl-2-pyrazinyl
S	propyl	ОН	6-methoxy-2-pyrazinyl

Table 1 (continued)

		Table 1 (conti	
X	R <sup>1</sup>	R <sup>2</sup>	Υ
S	propyl	ОН	6-chloro-2-pyrazinyl
S	propyl	OCOOMe	2-pyridyl
S	propyl	OCOOMe	3-pyridyl
S	propyl	OCOOMe	4-pyridyl
S	propyl	OCOOMe	2-methyl-3-pyridyl
S	propyl	OCOOMe	4-methyl-3-pyridyl
S	propyl	OCOOMe	5-methyl-3-pyridyl
S	propyl	OCOOMe	6-methyl-3-pyridyl
s	propyl	OCOOMe	2-ethyl-3-pyridyl
S	propyl	OCOOMe	4-ethyl-3-pyridyl
S	propyl	OCOOMe	5-ethyl-3-pyridyl
S	propyl	OCOOMe	6-ethyl-3-pyridyl
s	propyl	OCOOMe	2-methoxy-3-pyridyl
s	propyl	OCOOMe	4-methoxy-3-pyridyl
S	propyl	OCOOMe	5-methoxy-3-pyridyl
s	propyl	OCOOMe	6-methoxy-3-pyridyl
s	propyl	OCOOMe	2-ethoxy-3-pyridyl
S	propyl	OCOOMe	4-ethoxy-3-pyridyl
s	propyl	OCOOMe	5-ethoxy-3-pyridyl
S	propyl	OCOOMe	6-ethoxy-3-pyridyl
S	propyl	OCOOMe	2-chloro-3-pyridyl
s	propyl	OCOOMe	4-chloro-3-pyridyl
s	propyl	OCOOMe	5-chloro-3-pyridyl
S	propyl	OCOOMe	6-chloro-3-pyridyl
S	propyl	OCOOMe	2-fluoro-3-pyridyl
s	propyl	OCOOMe	4-fluoro-3-pyridyl
S	propyl	OCOOMe	5-fluoro-3-pyridyl
S	propyl	OCOOMe	6-fluoro-3-pyridyl
S	propyl	OCOOMe	2-dimethylamino-3-pyridyl
s	propyl	OCOOMe	4-dimethylamino-3-pyridyl
S	propyl	OCOOMe	5-dimethylamino-3-pyridyl
S	propyl	OCOOMe	6-dimethylamino-3-pyridyl
S	propyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
s	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
s	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
s	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOMe	2-piperidino-3-pyridyl
S	propyl	OCOOMe	4-piperidino-3-pyridyl

Table 1 (continued)

		Table I (Colli	ana da j
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOMe	5-piperidino-3-pyridyl
S	propyl	OCOOMe	6-piperidino-3-pyridyl
S	propyl	OCOOMe	2-morpholino-3-pyridyl
S	propyl	OCOOMe	4-morpholino-3-pyridyl
S	propyl	OCOOMe	5-morpholino-3-pyridyl
S	propyl	OCOOMe	6-morpholino-3-pyridyl
S	propyl	OCOOMe	2-hydroxy-3-pyridyl
S	propyl	OCOOMe	4-hydroxy-3-pyridyl
S	propyl	OCOOMe	5-hydroxy-3-pyridyl
S	propyl	OCOOMe	6-hydroxy-3-pyridyl
S	propyl	OCOOMe	2-mercapto-3-pyridyl
S	propyl	OCOOMe	4-mercapto-3-pyridyl
S	propyl	OCOOMe	5-mercapto-3-pyridyl
S	propyl	OCOOMe	6-mercapto-3-pyridyl
S	propyl	OCOOMe	2-methylthio-3-pyridyl
S	propyl	OCOOMe	4-methylthio-3-pyridyl
S	propyl	OCOOMe	5-methylthio-3-pyridyl
S	propyl	OCOOMe	6-methylthio-3-pyridyl
S	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	propyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	propyl	OCOOMe	2,6-diethyl-3-pyridyl
S	propyl	OCOOMe	5,6-diethyl-3-pyridyl
S	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
S	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	propyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	propyl	OCOOMe	2,6-dichloro-3-pyridyl
S	propyl	OCOOMe	5,6-dichloro-3-pyridyl
S	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
S	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	propyl	OCOOMe	2-methyl-4-pyridyl
S	propyl	OCOOMe	2-ethyl-4-pyridyl
S	propyl	OCOOMe	2-methoxy-4-pyridyl
S	propyl	OCOOMe	2-ethoxy-4-pyridyl
S	propyl	OCOOMe	2-chloro-4-pyridyl
S	propyl	OCOOMe	2-dimethylamino-4-pyridyl
		I	1 ', ', '

Table 1 (continued)

		Table 1 (com	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	propyl	OCOOMe	2-piperidino-4-pyridyl
S	propyl	OCOOMe	2-morpholino-4-pyridyl
S	propyl	OCOOMe	2-methylthio-4-pyridyl
S	propyl	OCOOMe	2-pyrazinyl
S	propyl	OCOOMe	5-methyl-2-pyrazinyl
S	propyl	OCOOMe	5-ethyl-2-pyrazinyl
S	propyl	OCOOMe	5-methoxy-2-pyrazinyl
S	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	propyl	OCOOMe	5-chloro-2-pyrazinyl
S	propyl	OCOOMe	6-methyl-2-pyrazinyl
S	propyl	OCOOMe	6-methoxy-2-pyrazinyl
S	propyl	OCOOMe	6-chloro-2-pyrazinyl
S	propyl	OCOOEt	2-pyridyl
S	propyl	OCOOEt	3-pyridyl
S	propyl	OCOOEt	4-pyridyl
S	propyl	OCOOEt	2-methyl-3-pyridyl
S	propyl	OCOOEt	4-methyl-3-pyridyl
S	propyl	OCOOEt	5-methyl-3-pyridyl
S	propyl	OCOOEt	6-methyl-3-pyridyl
S	propyl	OCOOEt	2-ethyl-3-pyridyl
S	propyl	OCOOEt	4-ethyl-3-pyridyl
S	propyl	OCOOEt	5-ethyl-3-pyridyl
S	propyl	OCOOEt	6-ethyl-3-pyridyl
S	propyl	OCOOEt	2-methoxy-3-pyridyl
S	propyl	OCOOEt	4-methoxy-3-pyridyl
S	propyl	OCOOEt	5-methoxy-3-pyridyl
S	propyl	OCOOEt	6-methoxy-3-pyridyl
S	propyl	OCOOEt	2-ethoxy-3-pyridyl
S	propyl	OCOOEt	4-ethoxy-3-pyridyl
S	propyl	OCOOEt	5-ethoxy-3-pyridyl
S	propyl	OCOOEt	6-ethoxy-3-pyridyl
S	propyl	OCOOEt	2-chloro-3-pyridyl
S	propyl	OCOOEt	4-chloro-3-pyridyl
S	propyl	OCOOEt	5-chloro-3-pyridyl
S	propyl	OCOOEt	6-chloro-3-pyridyl
S	propyl	OCOOEt	2-fluoro-3-pyridyl
S	propyl	OCOOEt	4-fluoro-3-pyridyl
_ S	propyi	OCOOEt	4-fluoro-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOEt	5-fluoro-3-pyridyl
S	propyl	OCOOEt	6-fluoro-3-pyridyl
S	propyl	OCOOEt	2-dimethylamino-3-pyridyl
S	propyl	OCOOEt	4-dimethylamino-3-pyridyl
S	propyl	OCOOEt	5-dimethylamino-3-pyridyl
S	propyl	OCOOEt	6-dimethylamino-3-pyridyl
S	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	2-piperidino-3-pyridyl
S	propyl	OCOOEt	4-piperidino-3-pyridyl
S	propyl	OCOOEt	5-piperidino-3-pyridyl
S	propyl	OCOOEt	6-piperidino-3-pyridyl
S	propyl	OCOOEt	2-morpholino-3-pyridyl
S	propyl	OCOOEt	4-morpholino-3-pyridyl
S	propyl	OCOOEt	5-morpholino-3-pyridyl
S	propyl	OCOOEt	6-morpholino-3-pyridyl
S	propyl	OCOOEt	2-hydroxy-3-pyridyl
S	propyl	OCOOEt	4-hydroxy-3-pyridyl
S	propyl	OCOOEt	5-hydroxy-3-pyridyl
S	propyl	OCOOEt	6-hydroxy-3-pyridyl
S	propyl	OCOOEt	2-mercapto-3-pyridyl
S	propyl	OCOOEt	4-mercapto-3-pyridyl
S	propyl	OCOOEt	5-mercapto-3-pyridyl
S	propyl	OCOOEt	6-mercapto-3-pyridyl
S	propyl	OCOOEt	2-methylthio-3-pyridyl
S	propyl	OCOOEt	4-methylthio-3-pyridyl
S	propyl	OCOOEt	5-methylthio-3-pyridyl
S	propyl	OCOOEt	6-methylthio-3-pyridyl
S	propyl	OCOOEt	2,6-dimethyl-3-pyridyl
S	propyl	OCOOEt	5,6-dimethyl-3-pyridyl
S	propyl	OCOOEt	2,6-diethyl-3-pyridyl
S	propyl	OCOOEt	5,6-diethyl-3-pyridyl
S	propyl	OCOOEt	2,6-dimethoxy-3-pyridyl
S	propyl	OCOOEt	5,6-dimethoxy-3-pyridyl
S	propyl	OCOOEt	2,6-diethoxy-3-pyridyl
S	propyl	OCOOEt	5,6-diethoxy-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOEt	2,6-dichloro-3-pyridyl
S	propyl	OCOOEt	5,6-dichloro-3-pyridyl
S	propyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
S	propyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
S	propyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
S	propyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
S	propyl	OCOOEt	2-methyl-4-pyridyl
S	propyl	OCOOEt	2-ethyl-4-pyridyl
S	propyl	OCOOEt	2-methoxy-4-pyridyl
S	propyl	OCOOEt	2-ethoxy-4-pyridyl
S	propyl	OCOOEt	2-chloro-4-pyridyl
S	propyl	OCOOEt	2-dimethylamino-4-pyridyl
S	propyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
S	propyl	OCOOEt	2-piperidino-4-pyridyl
S	propyl	OCOOEt	2-morpholino-4-pyridyl
S	propyl	OCOOEt	2-methylthio-4-pyridyl
S	propyl	OCOOEt	2-pyrazinyl
S	propyl	OCOOEt	5-methyl-2-pyrazinyl
S	propyl	OCOOEt	5-ethyl-2-pyrazinyl
S	propyl	OCOOEt	5-methoxy-2-pyrazinyl
S	propyl	OCOOEt	5-ethoxy-2-pyrazinyl
S	propyl	OCOOEt	5-chloro-2-pyrazinyl
S	propyl	OCOOEt	6-methyl-2-pyrazinyl
S	propyl	OCOOEt	6-methoxy-2-pyrazinyl
S	propyl	OCOOEt	6-chloro-2-pyrazinyl
S	n-butyl	ОН	2-pyridyl
S	n-butyl	ОН	3-pyridyl
S	n-butyl	ОН	4-pyridyl
S	n-butyl	ОН	2-methyl-3-pyridyl
S	n-butyl	ОН	4-methyl-3-pyridyl
S	n-butyl	ОН	5-methyl-3-pyridyl
S	n-butyl	ОН	6-methyl-3-pyridyl
S	n-butyl	ОН	2-ethyl-3-pyridyl
S	n-butyl	ОН	4-ethyl-3-pyridyl
S	n-butyl	ОН	5-ethyl-3-pyridyl
S	n-butyl	ОН	6-ethyl-3-pyridyl
	and the control of	ОН	2-methoxy-3-pyridyl
s	n-butyl	01	2 monoxy o pynayi

Table 1 (continued)

		,	· · · · · · · · · · · · · · · · · · ·
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	ОН	5-methoxy-3-pyridyl
S	n-butyl	ОН	6-methoxy-3-pyridyl
S	n-butyl	ОН	2-ethoxy-3-pyridyl
S	n-butyl	ОН	4-ethoxy-3-pyridyl
S	n-butyl	ОН	5-ethoxy-3-pyridyl
S	n-butyl	ОН	6-ethoxy-3-pyridyl
S	n-butyl	ОН	2-chloro-3-pyridyl
S	n-butyl	ОН	4-chloro-3-pyridyl
S	n-butyl	ОН	5-chloro-3-pyridyl
S	n-butyl	ОН	6-chloro-3-pyridyl
S	n-butyl	ОН	2-fluoro-3-pyridyl
S	n-butyl	ОН	4-fluoro-3-pyridyl
S	n-butyl	ОН	5-fluoro-3-pyridyl
S	n-butyl	ОН	6-fluoro-3-pyridyl
S	n-butyl	ОН	2-dimethylamino-3-pyridyl
S	n-butyl	ОН	4-dimethylamino-3-pyridyl
S	n-butyl	ОН	5-dimethylamino-3-pyridyl
S	n-butyl	ОН	6-dimethylamino-3-pyridyl
S	n-butyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	ОН	2-piperidino-3-pyridyl
S	n-butyl	ОН	4-piperidino-3-pyridyl
S	n-butyl	ОН	5-piperidino-3-pyridyl
S	n-butyl	ОН	6-piperidino-3-pyridyl
S	n-butyl	ОН	2-morpholino-3-pyridyl
S	n-butyl	ОН	4-morpholino-3-pyridyl
S	n-butyl	ОН	5-morpholino-3-pyridyl
S	n-butyl	ОН	6-morpholino-3-pyridyl
S	n-butyl	ОН	2-hydroxy-3-pyridyl
S	n-butyl	ОН	4-hydroxy-3-pyridyl
S	n-butyl	ОН	5-hydroxy-3-pyridyl
s	n-butyl	ОН	6-hydroxy-3-pyridyl
S	n-butyl	ОН	2-mercapto-3-pyridyl
S	n-butyl	ОН	4-mercapto-3-pyridyl
S	n-butyl	ОН	5-mercapto-3-pyridyl
S	n-butyl	ОН	6-mercapto-3-pyridyl

Table 1 (continued)

		Table 1 (com	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
S	n-butyl	ОН	2-methylthio-3-pyridyl
S	n-butyl	ОН	4-methylthio-3-pyridyl
S	n-butyl	ОН	5-methylthio-3-pyridyl
S	n-butyl	ОН	6-methylthio-3-pyridyl
S	n-butyl	ОН	2,6-dimethyl-3-pyridyl
S	n-butyl	ОН	5,6-dimethyl-3-pyridyl
S	n-butyl	ОН	2,6-diethyl-3-pyridyl
S	n-butyl	ОН	5,6-diethyl-3-pyridyl
S	n-butyl	ОН	2,6-dimethoxy-3-pyridyl
S	n-butyl	ОН	5,6-dimethoxy-3-pyridyl
S	n-butyl	ОН	2,6-diethoxy-3-pyridyl
S	n-butyl	ОН	5,6-diethoxy-3-pyridyl
S	n-butyl	ОН	2,6-dichloro-3-pyridyl
S	n-butyl	ОН	5,6-dichloro-3-pyridyl
S	n-butyl	ОН	5-chloro-6-methoxy-3-pyridyl
S	n-butyl	ОН	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	ОН	2-chloro-6-methyl-3-pyridyl
S	n-butyl	ОН	6-chloro-2-methyl-3-pyridyl
S	n-butyl	ОН	2-methyl-4-pyridyl
S	n-butyl	ОН	2-ethyl-4-pyridyl
S	n-butyl	ОН	2-methoxy-4-pyridyl
S	n-butyl	ОН	2-ethoxy-4-pyridyl
S	n-butyl	ОН	2-chloro-4-pyridyl
S	n-butyl	ОН	2-dimethylamino-4-pyridyl
S	n-butyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	ОН	2-piperidino-4-pyridyl
S	n-butyl	ОН	2-morpholino-4-pyridyl
S	n-butyl	ОН	2-methylthio-4-pyridyl
S	n-butyl	ОН	2-pyrazinyl
S	n-butyl	ОН	5-methyl-2-pyrazinyl
S	n-butyl	ОН	5-ethyl-2-pyrazinyl
S	n-butyl	ОН	5-methoxy-2-pyrazinyl
S	n-butyl	ОН	5-ethoxy-2-pyrazinyl
S	n-butyl	ОН	5-chloro-2-pyrazinyl
S	n-butyl	ОН	6-methyl-2-pyrazinyl
S	n-butyl	ОН	6-methoxy-2-pyrazinyl
S	n-butyl	ОН	6-chloro-2-pyrazinyl
S	n-butyl	OCOOMe	2-pyridyl

Table 1 (continued)

X S S	R <sup>1</sup> n-butyl	R <sup>2</sup> OCOOMe	Y 3-pyridyl
S S		OCOOMe	2-pyridyl
S	ابطم		э-рупаут
	n-butyl	OCOOMe	4-pyridyl
	n-butyl	OCOOMe	2-methyl-3-pyridyl
S	n-butyl	OCOOMe	4-methyl-3-pyridyl
S	n-butyl	OCOOMe	5-methyl-3-pyridyl
S	n-butyl	OCOOMe	6-methyl-3-pyridyl
S	n-butyl	OCOOMe	2-ethyl-3-pyridyl
S	n-butyl	OCOOMe	4-ethyl-3-pyridyl
S	n-butyl	OCOOMe	5-ethyl-3-pyridyl
s	n-butyl	OCOOMe	6-ethyl-3-pyridyl
s	n-butyl	OCOOMe	2-methoxy-3-pyridyl
S	n-butyl	OCOOMe	4-methoxy-3-pyridyl
s	n-butyl	OCOOMe	5-methoxy-3-pyridyl
s	n-butyl	OCOOMe	6-methoxy-3-pyridyl
s	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
s	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
s	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
s	n-butyl	OCOOMe	2-chloro-3-pyridyl
S	n-butyl	OCOOMe	4-chloro-3-pyridyl
s	n-butyl	OCOOMe	5-chloro-3-pyridyl
S	n-butyl	OCOOMe	6-chloro-3-pyridyl
s	n-butyl	OCOOMe	2-fluoro-3-pyridyl
s	n-butyl	OCOOMe	4-fluoro-3-pyridyl
S	n-butyl	OCOOMe	5-fluoro-3-pyridyl
S	n-butyl	OCOOMe	6-fluoro-3-pyridyl
s	n-butyl	OCOOMe	2-dimethylamino-3-pyridyl
s	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
s	n-butyl	OCOOMe	5-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	6-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
s	n-butyl	OCOOMe	2-piperidino-3-pyridyl
S	n-butyl	OCOOMe	4-piperidino-3-pyridyl
S	n-butyl	OCOOMe	5-piperidino-3-pyridyl
s	n-butyl	OCOOMe	6-piperidino-3-pyridyl

Table 1 (continued)

		Table 1 (com	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
S	n-butyl	OCOOMe	2-morpholino-3-pyridyl
S	n-butyl	OCOOMe	4-morpholino-3-pyridyl
S	n-butyl	OCOOMe	5-morpholino-3-pyridyl
S	n-butyl	OCOOMe	6-morpholino-3-pyridyl
S	n-butyl	OCOOMe	2-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	6-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	2-mercapto-3-pyridyl
S	n-butyl	OCOOMe	4-mercapto-3-pyridyl
S	n-butyl	OCOOMe	5-mercapto-3-pyridyl
S	n-butyl	OCOOMe	6-mercapto-3-pyridyl
S	n-butyl	OCOOMe	2-methylthio-3-pyridyl
S	n-butyl	OCOOMe	4-methylthio-3-pyridyl
S	n-butyl	OCOOMe	5-methylthio-3-pyridyl
S	n-butyl	OCOOMe	6-methylthio-3-pyridyl
S	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
S	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
S	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
S	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl
S	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
S	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	n-butyl	OCOOMe	2-methyl-4-pyridyl
S	n-butyl	OCOOMe	2-ethyl-4-pyridyl
S	n-butyl	OCOOMe	2-methoxy-4-pyridyl
S	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
S	n-butyl	OCOOMe	2-chloro-4-pyridyl
S	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
S	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	OCOOMe	2-piperidino-4-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOMe	2-morpholino-4-pyridyl
S	n-butyl	OCOOMe	2-methylthio-4-pyridyl
S	n-butyl	OCOOMe	2-pyrazinyl
S	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
S	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
S	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
S	n-butyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
S	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
S	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
S	n-butyl	OCOOMe	6-chloro-2-pyrazinyl
S	n-butyl	OCOOEt	2-pyridyl
S	n-butyl	OCOOEt	3-pyridyl
S	n-butyl	OCOOEt	4-pyridyl
S	n-butyl	OCOOEt	2-methyl-3-pyridyl
S	n-butyl	OCOOEt	4-methyl-3-pyridyl
S	n-butyl	OCOOEt	6-methyl-3-pyridyl
S	n-butyl	OCOOEt	6-methyl-3-pyridyl
S	n-butyl	OCOOEt	2-ethyl-3-pyridyl
S	n-butyl	OCOOEt	4-ethyl-3-pyridyl
S	n-butyl	OCOOEt	5-ethyl-3-pyridyl
S	n-butyl	OCOOEt	6-ethyl-3-pyridyl
S	n-butyl	OCOOEt	2-methoxy-3-pyridyl
S	n-butyl	OCOOEt	4-methoxy-3-pyridyl
S	n-butyl	OCOOEt	5-methoxy-3-pyridyl
S	n-butyl	OCOOEt	6-methoxy-3-pyridyl
S	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	5-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	2-chloro-3-pyridyl
S	n-butyl	OCOOEt	4-chloro-3-pyridyl
S	n-butyl	OCOOEt	5-chloro-3-pyridyl
S	n-butyl	OCOOEt	6-chloro-3-pyridyl
S	n-butyl	OCOOEt	2-fluoro-3-pyridyl
S	n-butyl	OCOOEt	4-fluoro-3-pyridyl
S	n-butyl	OCOOEt	5-fluoro-3-pyridyl
S	n-butyl	OCOOEt	6-fluoro-3-pyridyl

Table 1 (continued)

		Table 1 (com	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
S	n-butyl	OCOOET	5-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	2-piperidino-3-pyridyl
S	n-butyl	OCOOEt	4-piperidino-3-pyridyl
S	n-butyl	OCOOEt	5-piperidino-3-pyridyl
S	n-butyl	OCOOEt	6-piperidino-3-pyridyl
S	n-butyl	OCOOEt	2-morpholino-3-pyridyl
S	n-butyl	OCOOEt	4-morphalino-3-pyridyl
S	n-butyl	OCOOEt	5-morpholino-3-pyridyl
S	n-butyl	OCOOEt	6-morpholino-3-pyridyl
S	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	6-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	2-mercapto-3-pyridyl
S	n-butyl	OCOOEt	4-mercapto-3-pyridyl
S	n-butyl	OCOOEt	5-mercapto-3-pyridyl
S	n-butyl	OCOOEt	6-mercapto-3-pyridyl
S	n-butyl	OCOOEt	2-methylthio-3-pyridyl
S	n-butyl	OCOOEt	4-methylthio-3-pyridyl
S	n-butyl	OCOOEt	5-methylthio-3-pyridyl
S	n-butyl	OCOOEt	6-methylthio-3-pyridyl
S	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
S	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
S	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
S	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
S	n-butyl	OCOOEt	2,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOEt	5,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOEt	2,6-diethoxy-3-pyridyl
S	n-butyl	OCOOEt	5,6-diethoxy-3-pyridyl
S	n-butyl	OCOOEt	2,6-dichloro-3-pyridyl
S	n-butyl	OCOOEt	5,6-dichloro-3-pyridyl
	I	1	

Table 1 (continued)

		`	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
S	n-butyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
S	n-butyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
S	n-butyl	OCOOEt	2-methyl-4-pyridyl
S	n-butyl	OCOOEt	2-ethyl-4-pyridyl
S	n-butyl	OCOOEt	2-methoxy-4-pyridyl
S	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
S	n-butyl	OCOOEt	2-chloro-4-pyridyl
S	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
S	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	OCOOEt	2-piperidino-4-pyridyl
S	n-butyl	OCOOEt	2-morpholino-4-pyridyl
S	n-butyl	OCOOEt	2-methylthio-4-pyridyl
S	n-butyl	OCOOEt	2-pyrazinyl
S	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
S	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
S	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
S	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
S	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
S	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
S	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
S	n-butyl	OCOOEt	6-chloro-2-pyrazinyl
S	n-pentyl	ОН	2-pyridyl
S	n-pentyl	ОН	3-pyridyl
S	n-pentyl	ОН	4-pyridyl
S	n-pentyl	ОН	2-methyl-3-pyridyl
S	n-pentyl	ОН	4-methyl-3-pyridyl
S	n-pentyl	ОН	5-methyl-3-pyridyl
S	n-pentyl	ОН	6-methyl-3-pyridyl
S	n-pentyl	ОН	2-ethyl-3-pyridyl
S	n-pentyl	ОН	4-ethyl-3-pyridyl
S	n-pentyl	ОН	5-ethyl-3-pyridyl
S	n-pentyl	ОН	6-ethyl-3-pyridyl
S	n-pentyl	ОН	2-methoxy-3-pyridyl
S	n-pentyl	ОН	4-methoxy-3-pyridyl
S	n-pentyl	ОН	5-methoxy-3-pyridyl
S	n-pentyl	ОН	6-methoxy-3-pyridyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	ОН	2-ethoxy-3-pyridyl
S	n-pentyl	ОН	4-ethoxy-3-pyridyl
S	n-pentyl	ОН	5-ethoxy-3-pyridyl
S	n-pentyl	ОН	6-ethoxy-3-pyridyl
S	n-pentyl	ОН	2-chloro-3-pyridyl
S	n-pentyl	ОН	4-chloro-3-pyridyl
S	n-pentyl	ОН	5-chloro-3-pyridyl
S	n-pentyl	ОН	6-chloro-3-pyridyl
S	n-pentyl	ОН	2-fluoro-3-pyridyl
S	n-pentyl	ОН	4-fluoro-3-pyridyl
S	n-pentyl	ОН	5-fluoro-3-pyridyl
S	n-pentyl	ОН	6-fluoro-3-pyridyl
S	n-pentyl	ОН	2-dimethylamino-3-pyridyl
S	n-pentyl	ОН	4-dimethylamino-3-pyridyl
S	n-pentyl	ОН	5-dimethylamino-3-pyridyl
S	n-pentyl	ОН	6-dimethylamino-3-pyridyl
S	n-pentyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	ОН	2-piperidino-3-pyridyl
S	n-pentyl	ОН	4-piperidino-3-pyridyl
S	n-pentyl	ОН	5-piperidino-3-pyridyl
S	n-pentyl	ОН	6-piperidino-3-pyridyl
S	n-pentyl	ОН	2-morpholino-3-pyridyl
S	n-pentyl	ОН	4-morpholino-3-pyridyl
S	n-pentyl	ОН	5-morpholino-3-pyridyl
S	n-pentyl	ОН	6-morpholino-3-pyridyl
S	n-pentyl	ОН	2-hydroxy-3-pyridyl
S	n-pentyl	ОН	4-hydroxy-3-pyridyl
S	n-pentyl	ОН	5-hydroxy-3-pyridyl
S	n-pentyl	ОН	6-hydroxy-3-pyridyl
S	n-pentyl	ОН	2-mercapto-3-pyridyl
S	n-pentyl	ОН	4-mercapto-3-pyridyl
S	n-pentyl	ОН	5-mercapto-3-pyridyl
S	n-pentyl	ОН	6-mercapto-3-pyridyl
S	n-pentyl	ОН	2-methylthio-3-pyridyl
$\overline{}$		<del> </del>	4-methylthio-3-pyridyl

Table 1 (continued)

		,	_ ·
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	ОН	5-methylthio-3-pyridyl
S	n-pentyl	ОН	6-methylthio-3-pyridyl
S	n-pentyl	ОН	2,6-dimethyl-3-pyridyl
S	n-pentyl	ОН	5,6-dimethyl-3-pyridyl
S	n-pentyl	ОН	2,6-diethyl-3-pyridyl
S	n-pentyl	ОН	5,6-diethyl-3-pyridyl
S	n-pentyl	ОН	2,6-dimethoxy-3-pyridyl
S	n-pentyl	ОН	5,6-dimethoxy-3-pyridyl
S	n-pentyl	ОН	2,6-diethoxy-3-pyridyl
S	n-pentyl	ОН	5,6-diethoxy-3-pyridyl
S	n-pentyl	ОН	2,6-dichloro-3-pyridyl
S	n-pentyl	ОН	5,6-dichloro-3-pyridyl
S	n-pentyl	ОН	5-chloro-6-methoxy-3-pyridyl
S	n-pentyl	ОН	5-chloro-6-ethoxy-3-pyridyl
S	n-pentyl	ОН	2-chloro-6-methyl-3-pyridyl
S	n-pentyl	ОН	6-chloro-2-methyl-3-pyridyl
S	n-pentyl	ОН	2-methyl-4-pyridyl
S	n-pentyl	ОН	2-ethyl-4-pyridyl
S	n-pentyl	ОН	2-methoxy-4-pyridyl
S	n-pentyl	ОН	2-ethoxy-4-pyridyl
S	n-pentyl	ОН	2-chloro-4-pyridyl
S	n-pentyl	ОН	2-dimethylamino-4-pyridyl
S	n-pentyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
S	n-pentyl	ОН	2-piperidino-4-pyridyl
S	n-pentyl	ОН	2-morpholino-4-pyridyl
S	n-pentyl	ОН	2-methylthio-4-pyridyl
S	n-pentyl	ОН	2-pyrazinyl
S	n-pentyl	ОН	5-methyl-2-pyrazinyl
S	n-pentyl	ОН	5-ethyl-2-pyrazinyl
S	n-pentyl	ОН	5-methoxy-2-pyrazinyl
S	n-pentyl	ОН	5-ethoxy-2-pyrazinyl
S	n-pentyl	ОН	5-chloro-2-pyrazinyl
S	n-pentyl	ОН	6-methyl-2-pyrazinyl
S	n-pentyl	ОН	6-methoxy-2-pyrazinyl
S	n-pentyl	ОН	6-chloro-2-pyrazinyl
S	n-pentyl	OCOOMe	2-pyridyl
S	n-pentyl	OCOOMe	3-pyridyl
S	n-pentyl	OCOOMe	4-pyridyl

Table 1 (continued)

Х			
^	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOMe	2-methyl-3-pyridyl
S	n-pentyl	OCOOMe	4-methyl-3-pyridyl
S	n-pentyl	OCOOMe	5-methyl-3-pyridyl
S	n-pentyl	OCOOMe	6-methyl-3-pyridyl
S	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	6-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	2-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	6-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	4-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-chloro-3-pyridyl
S	n-pentyl	OCOOMe	4-chloro-3-pyridyl
S	n-pentyl	OCOOMe	5-chloro-3-pyridyl
S	n-pentyl	OCOOMe	6-chloro-3-pyridyl
S	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	5-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
	i	1	
S	n-pentyl	OCOOMe	2-morpholino-3-pyridyl

Table 1 (continued)

X S S	R <sup>1</sup> n-pentyl	R <sup>2</sup>	Y
$\vdash$	n-nentyl	1	
s	ii pentyi	OCOOMe	5-morpholino-3-pyridyl
- 1	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
S	n-pentyl	OCOOMe	2-hydroxy-3-pyridyl
S	n-pentyl	OCOOMe	4-hydzoxy-3-pyridyl
S	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
S	n-pentyl	OCOOMe	6-hydroxy-3-pyridyl
S	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
S	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
S	n-pentyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	n-pentyl	OCOOMe	2-methyl-4-pyridyl
S	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
S	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
S	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl
S	n-pentyl	OCOOMe	2-chloro-4-pyridyl
S	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
S	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
S	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
S	n-pentyl	OCOOMe	2-methylthio-4-pyridyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
S	n-pentyl	OCOOMe	2-pyrazinyl
S	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
S	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
S	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
S	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
S	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl
S	n-pentyl	OCOOEt	2-pyridyl
S	n-pentyl	OCOOEt	3-pyridyl
S	n-pentyl	OCOOEt	4-pyridyl
S	n-pentyl	OCOOEt	2-methyl-3-pyridyl
S	n-pentyl	OCOOEt	4-methyl-3-pyridyl
S	n-pentyl	OCOOEt	5-methyl-3-pyridyl
S	n-pentyl	OCOOEt	6-methyl-3-pyridyl
S	n-pentyl	OCOOEt	2-ethyl-3-pyridyl
S	n-pentyl	OCOOEt	4-ethyl-3-pyridyl
S	n-pentyl	OCOOEt	5-ethyl-3-pyridyl
S	n-pentyl	OCOOEt	6-ethyl-3-pyridyl
S	n-pentyl	OCOOEt	2-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	4-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	5-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	6-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	2-ethoxy-3-pyridyl
S	n-pentyl	OCOOEt	4-ethoxy-3-pyridyl
S	n-pentyl	OCOOEt	5-ethoxy-3-pyridyl
S	n-pentyl	OCOOEt	6-ethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2-chloro-3-pyridyl
S	n-pentyl	OCOOEt	4-chloro-3-pyridyl
S	n-pentyl	OCOOEt	5-chloro-3-pyridyl
S	n-pentyl	OCOOEt	6-chloro-3-pyridyl
S	n-pentyl	OCOOEt	2-fluoro-3-pyridyl
S	n-pentyl	OCOOEt	4-fluoro-3-pyridyl
S	n-pentyl	OCOOEt	5-fluoro-3-pyridyl
S	n-pentyl	OCOOEt	6-fluoro-3-pyridyl
S	n-pentyl	OCOOEt	2-dimethylamino-3-pyridyl
S	n-pentyl	OCOOEt	4-dimethylamino-3-pyridyl

Table 1 (continued)

		1001	
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOEt	5-dimethylamino-3-pyridyl
S	n-pentyl	OCOOEt	6-dimethylamino-3-pyridyl
S	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOEt	2-piperidino-3-pyridyl
S	n-pentyl	OCOOEt	4-piperidino-3-pyridyl
S	n-pentyl	OCOOEt	5-piperidino-3-pyridyl
S	n-pentyl	OCOOEt	6-piperidino-3-pyridyl
S	n-pentyl	OCOOEt	2-morpholino-3-pyridyl
S	n-pentyl	OCOOEt	4-morpholino-3-pyridyl
S	n-pentyl	OCOOEt	5-morpholino-3-pyridyl
S	n-pentyl	OCOOEt	6-morpholino-3-pyridyl
S	n-pentyl	OCOOEt	2-hydroxy-3-pyridyl
S	n-pentyl	OCOOEt	4-hydroxy-3-pyridyl
S	n-pentyl	OCOOEt	5-hydroxy-3-pyridyl
S	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl
S	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	.5-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	6-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
S	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
S	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
	1	1	

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
s	n-pentyl	OCOOEt	2-chloro-8-methyl-3-pyridyl
S	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
S	n-pentyl	OCOOEt	2-methyl-4-pyridyl
S	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
S	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
S	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
S	n-pentyl	OCOOEt	2-chloro-4-pyridyl
S	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
S	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
S	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
s	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
s	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
S	n-pentyl	OCOOEt	2-pyrazinyl
S	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
S	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
S	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
S	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
s	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
s	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
s	n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl
S	n-pentyl	OCOOEt	6-chloro-2-pyrazinyl
NH	2-methoxyethyl	ОН	3-pyridyl
NH	2-methoxyethyl	ОН	4-pyridyl
NH	2-methoxyethyl	ОН	2-methyl-3-pyridyl
NH	2-methoxyethyl	ОН	6-methyl-3-pyridyl
NH	2-methoxyethyl	ОН	2-ethyl-3-pyridyl
NH	2-methoxyethyl	ОН	6-ethyl-3-pyridyl
NH	2-methoxyethyl	ОН	6-methoxy-3-pyridyl
NH	2-methoxyethyl	ОН	6-ethoxy-3-pyridyl
NH	2-methoxyethyl	ОН	2-chloro-3-pyridyl
NH	2-methoxyethyl	ОН	6-chloro-3-pyridyl
NH	2-methoxyethyl	ОН	5,6-dimethyl-3-pyridyl
NH	2-methoxyethyl	ОН	5,6-dimethoxy-3-pyridyl
NH	2-methoxyethyl	ОН	5,6-dichloro-3-pyridyl
NH	2-methoxyethyl	OH	6-dimethylamino-3-pyridyl
NH	2-methoxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	2-methoxyethyl	ОН	6-piperidino-3-pyridyl
NH	2-methoxyethyl	ОН	6-morpholino-3-pyridyl

Table 1 (continued)

			,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	2-methoxyethyl	ОН	6-methylthio-3-pyridyl
NH	2-methoxyethyl	ОН	2-pyrazinyl
NH	2-methoxyethyl	ОН	5-methyl-2-pyrazinyl
NH	3-methoxypropyl	ОН	3-pyridyl
NH	3-methoxypropyl	ОН	4-pyridyl
NH	3-methoxypropyl	ОН	2-methyl-3-pyridyl
NH	3-methoxypropyl	ОН	6-methyl-3-pyridyl
NH	3-methoxypropyl	ОН	2-ethyl-3-pyridyl
NH	3-methoxypropyl	ОН	6-ethyl-3-pyridyl
NH	3-methoxypropyl	ОН	2-methoxy-3-pyridyl
NH	3-methoxypropyl	ОН	6-methoxy-3-pyridyl
NH	3-methoxypropyl	ОН	6-ethoxy-3-pyridyl
NH	3-methoxypropyl	ОН	2-chloro-3-pyridyl
NH	3-methoxypropyl	ОН	6-chloro-3-pyridyl
NH	3-methoxypropyl	ОН	5,6-dimethyl-3-pyridyl
NH	3-methoxypropyl	ОН	5,6-dimethoxy-3-pyridyl
NH	3-methoxypropyl	ОН	5,6-dichloro-3-pyridyl
NH	3-methoxypropyl	ОН	6-dimethylamino-3-pyridyl
NH	3-methoxypropyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	3-methoxypropyl	ОН	6-piperidino-3-pyridyl
NH	3-methoxypropyl	ОН	6-morpholino-3-pyridyl
NH	3-methoxypropyl	ОН	6-methylthio-3-pyridyl
NH	3-methoxypropyl	ОН	2-pyrazinyl
NH	3-methoxypropyl	ОН	5-methyl-2-pyrazinyl
0	2-methoxyethyl	ОН	3-pyridyl
0	2-methoxyethyl	ОН	4-pyridyl
0	2-methoxyethyl	ОН	2-methyl-3-pyridyl
0	2-methoxyethyl	ОН	6-methyl-3-pyridyl
0	2-methoxyethyl	ОН	2-ethyl-3-pyridyl
0	2-methoxyethyl	ОН	6-ethyl-3-pyridyl
0	2-methoxyethyl	ОН	6-methoxy-3-pyridyl
0	2-methoxyethyl	ОН	6-ethoxy-3-pyridyl
0	2-methoxyethyl	ОН	2-chloro-3-pyridyl
0	2-methoxyethyl	ОН	6-chloro-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dimethyl-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dimethoxy-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dichloro-3-pyridyl
0	2-methoxyethyl	ОН	6-dimethylamino-3-pyridyl

Table 1 (continued)

		10011	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	2-methoxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	2-methoxyethyl	ОН	6-piperidino-3-pyridyl
0	2-methoxyethyl	ОН	6-morpholino-3-pyridyl
0	2-methoxyethyl	ОН	6-methylthio-3-pyridyl
0	2-methoxyethyl	ОН	2-pyrazinyl
0	2-methoxyethyl	ОН	5-methyl-2-pyrazinyl
0	3-methoxypropyl	ОН	3-pyridyl
0	3-methoxypropyl	ОН	4-pyridyl
0	3-methoxypropyl	ОН	2-methyl-3-pyridyl
0	3-methoxypropyl	ОН	6-methyl-3-pyridyl
0	3-methoxypropyl	ОН	2-ethyl-3-pyridyl
0	3-methoxypropyl	ОН	6-ethyl-3-pyridyl
0	3-methoxypropyl	ОН	2-methoxy-3-pyridyl
0	3-methoxypropyl	ОН	6-methoxy-3-pyridyl
0	3-methoxypropyl	ОН	6-ethoxy-3-pyridyl
0	3-methoxypropyl	ОН	2-chloro-3-pyridyl
0	3-methoxypropyl	ОН	6-chloro-3-pyridyl
0	3-methoxypropyl	ОН	5,6-dimethyl-3-pyridyl
0	3-methoxypropyl	ОН	5,6-dimethoxy-3-pyridyl
0	3-methoxypropyl	ОН	5,6-dichloro-3-pyridyl
0	3-methoxypropyl	ОН	6-dimethylamino-3-pyridyl
0	3-methoxypropyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	3-methoxypropyl	ОН	6-piperidino-3-pyridyl
0	3-methoxypropyl	ОН	6-morpholino-3-pyridyl
0	3-methoxypropyl	ОН	6-methylthio-3-pyridyl
0	3-methoxypropyl	ОН	2-pyrazinyl
0	3-methoxypropyl	ОН	5-methyl-2-pyrazinyl
S	2-methoxyethyl	ОН	3-pyridyl
S	2-methoxyethyl	ОН	4-pyridyl
S	2-methoxyethyl	ОН	2-methyl-3-pyridyl
S	2-methoxyethyl	ОН	6-methyl-3-pyridyl
S	2-methoxyethyl	ОН	2-ethyl-3-pyridyl
S	2-methoxyethyl	ОН	6-ethyl-3-pyridyl
S	2-methoxyethyl	ОН	6-methoxy-3-pyridyl
S	2-methoxyethyl	ОН	6-ethoxy-3-pyridyl
S	2-methoxyethyl	ОН	2-chloro-3-pyridyl
S	2-methoxyethyl	ОН	6-chloro-3-pyridyl
S	2-methoxyethyl	ОН	5,6-dimethyl-3-pyridyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	2-methoxyethyl	ОН	5,6-dimethoxy-3-pyridyl
S	2-methoxyethyl	ОН	5,6-dichloro-3-pyridyl
S	2-methoxyethyl	ОН	6-dimethylamino-3-pyridyl
S	2-methoxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	2-methoxyethyl	ОН	6-piperidino-3-pyridyl
S	2-methoxyethyl	ОН	6-morpholino-3-pyridyl
S	2-methoxyethyl	ОН	6-methylthio-3-pyridyl
S	2-methoxyethyl	ОН	2-pyrazinyl
S	2-methoxyethyl	ОН	5-methyl-2-pyrazinyl
S	2-hydroxyethyl	ОН	3-pyridyl
S	2-hydroxyethyl	ОН	4-pyridyl
S	2-hydroxyethyl	ОН	2-methyl-3-pyridyl
S	2-hydroxyethyl	ОН	6-methyl-3-pyridyl
S	2-hydroxyethyl	ОН	2-ethyl-3-pyridyl
S	2-hydroxyethyl	ОН	6-ethyl-3-pyridyl
S	2-hydroxyethyl	ОН	2-methoxy-3-pyridyl
S	2-hydroxyethyl	ОН	6-methoxy-3-pyridyl
S	2-hydroxyethyl	ОН	6-ethoxy-3-pyridyl
S	2-hydroxyethyl	ОН	2-chloro-3-pyridyl
S	2-hydroxyethyl	ОН	6-chloro-8-pyridyl
S	2-hydroxyethyl	ОН	5,6-dimethyl-3-pyridyl
S	2-hydroxyethyl	ОН	5,6-dimethoxy-3-pyridyl
S	2-hydroxyethyl	ОН	5,6-dichloro-3-pyridyl
S	2-hydroxyethyl	ОН	6-dimethylamino-3-pyridyl
S	2-hydroxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	2-hydroxyethyl	OH	6-piperidino-3-pyridyl
S	2-hydroxyethyl	ОН	6-morpholino-3-pyridyl
S	2-hydroxyethyl	ОН	6-methylthio-3-pyridyl
S	2-hydroxyethyl	ОН	2-pyrazinyl
S	2-hydroxyethyl	ОН	5-methyl-2-pyrazinyl
NH	propyl	OH	1-naphthyl
NH	propyl	OH	2-naphthyl
NH	propyl	ОН	2-pyrrolyl
NH	propyl	OH	3-pyrrolyl
NH	propyl	ОН	2-furyl
NH	propyl	ОН	3-furyl
NH	propyl	OH	2-thienyl
NH	propyl	ОН	3-thienyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	ОН	3-pyrazolyl
NH	propyl	ОН	4-pyrazolyl
NH	propyl	ОН	2-imidazolyl
NH	propyl	ОН	4-imidazolyl
NH	propyl	ОН	2-oxazolyl
NH	propyl	ОН	4-oxazolyl
NH	propyl	ОН	5-oxazolyl
NH	propyl	ОН	2-thiazolyl
NH	propyl	ОН	4-thiazolyl
NH	propyl	ОН	5-thiazolyl
NH	propyl	ОН	2-pyrimidinyl
NH	propyl	ОН	4-pyrimidinyl
NH	propyl	ОН	5-pyrimidinyl
NH	propyl	ОН	2-indolyl
NH	propyl	ОН	3-indolyl
NH	propyl	ОН	5-indolyl
NH	propyl	ОН	6-indolyl
NH	propyl	ОН	5-benzimidazolyl
NH	propyl	ОН	2-benzofuryl
NH	propyl	ОН	3-indazolyl
NH	propyl	ОН	2-benzoxazolyl
NH	propyl	ОН	4-fluoro-1-naphthyl
NH	propyl	ОН	5-chloro-2-thienyl
NH	propyl	ОН	4-methyl-1-naphthyl
NH	propyl	ОН	1-methyl-2-pyrrolyl
NH	propyl	ОН	2-methyl-3-furyl
NH	propyl	ОН	5-methyl-2-thienyl
NH	propyl	ОН	4-methyl-5-imidazolyl
NH	propyl	ОН	1-methyl-3-indolyl
NH	propyl	ОН	2-methoxy-1-naphthyl
NH	propyl	ОН	3-methoxy-2-naphthyl
NH	propyl	ОН	6-ethoxy-2-naphthyl
NH	propyl	ОН	5-methoxy-3-indolyl
NH	propyl	ОН	1,4-dimethoxy-2-naphthyl
NH	propyl	ОН	5,6-dimethoxy-2-indolyl
NH	propyl	ОН	5-methoxy-1-methyl-2-indolyl
NH	propyl	OCOOMe	1-naphthyl
NH	propyl	OCOOMe	2-naphthyl

Table 1 (continued)

Х			
	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOMe	2-pyrrolyl
NH	propyl	OCOOMe	3-pyrrolyl
NH	propyl	OCOOMe	2-furyl
NH	propyl	OCOOMe	3-furyl
NH	propyl	OCOOMe	2-thienyl
NH	propyl	OCOOMe	3-thienyl
NH	propyl	OCOOMe	3-pyrazolyl
NH	propyl	OCOOMe	4-pyrazolyl
NH	propyl	OCOOMe	2-imidazolyl
NH	propyl	OCOOMe	4-imidazolyl
NH	propyl	OCOOMe	2-oxazolyl
NH	propyl	OCOOMe	4-oxazolyl
NH	propyl	OCOOMe	5-oxazolyl
NH	propyl	OCOOMe	2-thiazolyl
NH	propyl	OCOOMe	4-thiazolyl
NH	propyl	OCOOMe	5-thiazolyl
NH	propyl	OCOOMe	2-pyrimidinyl
NH	propyl	OCOOMe	4-pyrimidinyl
NH	propyl	OCOOMe	5-pyrimidinyl
NH	propyl	OCOOMe	2-indolyl
NH	propyl	OCOOMe	3-indolyl
NH	propyl	OCOOMe	5-indolyl
NH	propyl	OCOOMe	6-indolyl
NH	propyl	OCOOMe	5-benzimidazolyl
NH	propyl	OCOOMe	2-benzofuryl
NH	propyl	OCOOMe	3-indazolyl
NH	propyl	OCOOMe	2-benzoxazolyl
NH	propyl	OCOOMe	4-fluoro-1-naphthyl
NH	propyl	OCOOMe	5-chloro-2-thienyl
NH	propyl	OCOOMe	4-methyl-1-naphthyl
NH	propyl	OCOOMe	1-methyl-2-pyrrolyl
NH	propyl	OCOOMe	2-methyl-3-furyl
NH	propyl	OCOOMe	5-methyl-2-thienyl
NH	propyl	OCOOMe	4-methyl-5-imidazolyl
NH	propyl	OCOOMe	1-methyl-3-indolyl
NH	propyl	OCOOMe	2-methoxy-1-naphthyl
		OCOOMe	3-methoxy-2-naphthyl
NH	propyl	COCONIE	6 methoxy 2 haphthyr

Table 1 (continued)

		,	_ ·
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOMe	5-methoxy-3-indolyl
NH	propyl	OCOOMe	1,4-dimethoxy-2-naphthyl
NH	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
NH	propyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
NH	propyl	OCOOEt	1-naphthyl
NH	propyl	OCOOEt	2-naphthyl
NH	propyl	OCOOEt	2-pyrrolyl
NH	propyl	OCOOEt	3-pyrrolyl
NH	propyl	OCOOEt	2-furyl
NH	propyl	OCOOEt	3-furyl
NH	propyl	OCOOEt	2-thienyl
NH	propyl	OCOOEt	3-thienyl
NH	propyl	OCOOEt	3-pyrazolyl
NH	propyl	OCOOEt	4-pyrazolyl
NH	propyl	OCOOEt	2-imidazolyl
NH	propyl	OCOOEt	4-imidazolyl
NH	propyl	OCOOEt	2-oxazolyl
NH	propyl	OCOOEt	4-oxazolyl
NH	propyl	OCOOEt	5-oxazolyl
NH	propyl	OCOOEt	2-thiazolyl
NH	propyl	OCOOEt	4-thiazolyl
NH	propyl	OCOOEt	5-thiazolyl
NH	propyl	OCOOEt	2-pyrimidinyl
NH	propyl	OCOOEt	4-pyrimidinyl
NH	propyl	OCOOEt	5-pyrimidinyl
NH	propyl	OCOOEt	2-indolyl
NH	propyl	OCOOEt	3-indolyl
NH	propyl	OCOOEt	5-indolyl
NH	propyl	OCOOEt	6-indolyl
NH	propyl	OCOOEt	5-benzimidazolyl
NH	propyl	OCOOEt	2-benzofuryl
NH	propyl	OCOOEt	3-indazolyl
NH	propyl	OCOOEt	2-benzoxazolyl
NH	propyl	OCOOEt	4-fluoro-1-naphthyl
NH	propyl	OCOOEt	5-chloro-2-thienyl
NH	propyl	OCOOEt	4-methyl-1-naphthyl
NH	propyl	OCOOEt	1-methyl-2-pyrrolyl
NH	propyl	OCOOEt	2-methyl-3-furyl

Table 1 (continued)

			,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOEt	5-methyl-2-thienyl
NH	propyl	OCOOEt	4-methyl-5-imidazolyl
NH	propyl	OCOOEt	1-methyl-3-indolyl
NH	propyl	OCOOEt	2-methoxy-1-naphthyl
NH	propyl	OCOOEt	3-methoxy-2-naphthyl
NH	propyl	OCOOEt	6-ethoxy-2-naphthyl
NH	propyl	OCOOEt	5-methoxy-3-indolyl
NH	propyl	OCOOEt	1,4-dimethoxy-2-naphthyl
NH	propyl	OCOOEt	5,6-dimetboxy-2-indolyl
NH	propyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
NH	n-butyl	ОН	1-naphthyl
NH	n-butyl	ОН	2-naphthyl
NH	n-butyl	ОН	2-pyrrolyl
NH	n-butyl	ОН	3-pyrrolyl
NH	n-butyl	ОН	2-furyl
NH	n-butyl	ОН	3-furyl
NH	n-butyl	ОН	2-thienyl
NH	n-butyl	ОН	3-thienyl
NH	n-butyl	ОН	3-pyrazolyl
NH	n-butyl	ОН	4-pyrazolyl
NH	n-butyl	ОН	2-imidazolyl
NH	n-butyl	ОН	4-imidazolyl
NH	n-butyl	ОН	2-oxazolyl
NH	n-butyl	ОН	4-oxazolyl
NH	n-butyl	ОН	5-oxazolyl
NH	n-butyl	ОН	2-thiazolyl
NH	n-butyl	ОН	4-thiazolyl
NH	n-butyl	ОН	5-thiazolyl
NH	n-butyl	ОН	2-pyrimidinyl
NH	n-butyl	ОН	4-pyrimidinyl
NH	n-butyl	ОН	5-pyrimidinyl
NH	n-butyl	ОН	2-indolyl
NH	n-butyl	ОН	3-indolyl
NH	n-butyl	ОН	5-indolyl
NH	n-butyl	ОН	6-indolyl
NH	n-butyl	ОН	5-benzimidazolyl
NH	n-butyl	ОН	2-benzofuryl
NH	n-butyl	ОН	3-indazolyl

Table 1 (continued)

		(	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	ОН	2-benzoxazolyl
NH	n-butyl	ОН	4-fluoro-1-naphthyl
NH	n-butyl	ОН	5-chloro-2-thienyl
NH	n-butyl	ОН	4-methyl-1-naphthyl
NH	n-butyl	ОН	1-methyl-2-pyrrolyl
NH	n-butyl	ОН	2-methyl-3-furyl
NH	n-butyl	ОН	5-methyl-2-thienyl
NH	n-butyl	ОН	4-methyl-5-imidazolyl
NH	n-butyl	ОН	1-methyl-3-indolyl
NH	n-butyl	ОН	2-methoxy-1-naphthyl
NH	n-butyl	ОН	3-methoxy-2-naphthyl
NH	n-butyl	ОН	6-ethoxy-2-naphthyl
NH	n-butyl	ОН	5-methoxy-3-indolyl
NH	n-butyl	ОН	1,4-dimethoxy-2-naphthyl
NH	n-butyl	ОН	5,6-dimethoxy-2-indolyl
NH	n-butyl	ОН	5-methoxy-1-methyl-2-indolyl
NH	n-butyl	OCOOMe	1-naphthyl
NH	n-butyl	OCOOMe	2-naphthyl
NH	n-butyl	OCOOMe	2-pyrrolyl
NH	n-butyl	OCOOMe	3-pyrrolyl
NH	n-butyl	OCOOMe	2-furyl
NH	n-butyl	OCOOMe	3-furyl
NH	n-butyl	OCOOMe	2-thienyl
NH	n-butyl	OCOOMe	3-thienyl
NH	n-butyl	OCOOMe	3-pyrazolyl
NH	n-butyl	OCOOMe	4-pyrazolyl
NH	n-butyl	OCOOMe	2-imidazolyl
NH	n-butyl	OCOOMe	4-imidazolyl
NH	n-butyl	OCOOMe	2-oxazolyl
NH	n-butyl	OCOOMe	4-oxazolyl
NH	n-butyl	OCOOMe	5-oxazolyl
NH	n-butyl	OCOOMe	2-thiazolyl
NH	n-butyl	OCOOMe	4-thiazolyl
NH	n-butyl	OCOOMe	5-thiazolyl
NH	n-butyl	OCOOMe	2-pyrimidinyl
NH	n-butyl	OCOOMe	4-pyrimidinyl
NH	n-butyl	OCOOMe	5-pyrimidinyl
NH	n-butyl	OCOOMe	2-indolyl

Table 1 (continued)

		Table 1 (com	
X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOMe	3-indolyl
NH	n-butyl	OCOOMe	5-indolyl
NH	n-butyl	OCOOMe	6-indolyl
NH	n-butyl	OCOOMe	5-benzimidazolyl
NH	n-butyl	OCOOMe	2-benzofuryl
NH	n-butyl	OCOOMe	3-indazolyl
NH	n-butyl	OCOOMe	2-benzoxazolyl
NH	n-butyl	OCOOMe	4-fluoro-1-naphthyl
NH	n-butyl	OCOOMe	5-chloro-2-thienyl
NH	n-butyl	OCOOMe	4-methyl-1-naphthyl
NH	n-butyl	OCOOMe	1-methyl-2-pyrrolyl
NH	n-butyl	OCOOMe	2-methyl-3-furyl
NH	n-butyl	OCOOMe	5-methyl-2-thienyl
NH	n-butyl	OCOOMe	4-methyl-5-imidazolyl
NH	n-butyl	OCOOMe	1-methyl-3-indolyl
NH	n-butyl	OCOOMe	2-methoxy-1-naphthyl
NH	n-butyl	OCOOMe	3-methoxy-2-naphthyl
NH	n-butyl	OCOOMe	6-ethoxy-2-naphthyl
NH	n-butyl	OCOOMe	5-methoxy-3-indolyl
NH	n-butyl	OCOOMe	1,4-dimethoxy-2-naphthyl
NH	n-butyl	OCOOMe	5,6-dimethoxy-2-indolyl
NH	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
NH	n-butyl	OCOOEt	1-naphthyl
NH	n-butyl	OCOOEt	2-naphthyl
NH	n-butyl	OCOOEt	2-pyrrolyl
NH	n-butyl	OCOOEt	3-pyrrolyl
NH	n-butyl	OCOOEt	2-furyl
NH	n-butyl	OCOOEt	3-furyl
NH	n-butyl	OCOOEt	2-thienyl
NH	n-butyl	OCOOEt	3-thienyl
NH	n-butyl	OCOOEt	3-pyrazolyl
NH	n-butyl	OCOOEt	4-pyrazolyl
NH	n-butyl	OCOOEt	2-imidazolyl
NH	n-butyl	OCOOEt	4-imidazolyl
NH	n-butyl	OCOOEt	2-oxazolyl
NH	n-butyl	OCOOEt	4-oxazolyl
NH	n-butyl	OCOOEt	5-oxazolyl
NH	n-butyl	OCOOEt	2-thiazolyl

Table 1 (continued)

		`	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOEt	4-thiazolyl
NH	n-butyl	OCOOEt	5-thiazolyl
NH	n-butyl	OCOOEt	2-pyrimidinyl
NH	n-butyl	OCOOEt	4-pyrimidinyl
NH	n-butyl	OCOOEt	5-pyrimidinyl
NH	n-butyl	OCOOEt	2-indolyl
NH	n-butyl	OCOOEt	3-indolyl
NH	n-butyl	OCOOEt	5-indolyl
NH	n-butyl	OCOOEt	6-indolyl
NH	n-butyl	OCOOEt	5-benzimidazolyl
NH	n-butyl	OCOOEt	2-benzofuryl
NH	n-butyl	OCOOEt	3-indazolyl
NH	n-butyl	OCOOEt	2-benzoxazolyl
NH	n-butyl	OCOOEt	4-fluoro-1-naphthyl
NH	n-butyl	OCOOEt	5-chloro-2-thienyl
NH	n-butyl	OCOOEt	4-methyl-1-naphthyl
NH	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
NH	n-butyl	OCOOEt	2-methyl-3-furyl
NH	n-butyl	OCOOEt	5-methyl-2-thienyl
NH	n-butyl	OCOOEt	4-methyl-5-imidazolyl
NH	n-butyl	OCOOEt	1-methyl-3-indolyl
NH	n-butyl	OCOOEt	2-methoxy-1-naphthyl
NH	n-butyl	OCOOEt	3-methoxy-2-naphthyl
NH	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
NH	n-butyl	OCOOEt	5-methoxy-3-indolyl
NH	n-butyl	OCOOEt	1,4-dimethoxy-2-naphthyl
NH	n-butyl	OCOOEt	5,6-dimethoxy-2-indolyl
NH	n-butyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
NH	n-pentyl	ОН	1-naphthyl
NH	n-pentyl	ОН	2-naphthyl
NH	n-pentyl	ОН	2-pyrrolyl
NH	n-pentyl	OH	3-pyrrolyl
NH	n-pentyl	ОН	2-furyl
NH	n-pentyl	ОН	3-furyl
NH	n-pentyl	ОН	2-thienyl
NH	n-pentyl	ОН	3-thienyl
NH	n-pentyl	ОН	3-pyrazolyl
NH	n-pentyl	ОН	4-pyrazolyl

Table 1 (continued)

		`	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	ОН	2-imidazolyl
NH	n-pentyl	ОН	4-imidazolyl
NH	n-pentyl	ОН	2-oxazolyl
NH	n-pentyl	ОН	4-oxazolyl
NH	n-pentyl	ОН	5-oxazolyl
NH	n-pentyl	ОН	2-thiazolyl
NH	n-pentyl	ОН	4-thiazolyl
NH	n-pentyl	ОН	5-thiazolyl
NH	n-pentyl	ОН	2-pyrimidinyl
NH	n-pentyl	ОН	4-pyrimidinyl
NH	n-pentyl	ОН	5-pyrimidinyl
NH	n-pentyl	ОН	2-indolyl
NH	n-pentyl	ОН	3-indolyl
NH	n-pentyl	ОН	5-indolyl
NH	n-pentyl	ОН	6-indolyl
NH	n-pentyl	ОН	5-benzimidazolyl
NH	n-pentyl	ОН	2-benzofuryl
NH	n-pentyl	ОН	3-indazolyl
NH	n-pentyl	ОН	2-benzoxazolyl
NH	n-pentyl	ОН	4-fluoro-1-naphthyl
NH	n-pentyl	ОН	5-chloro-2-thienyl
NH	n-pentyl	ОН	4-methyl-1-naphthyl
NH	n-pentyl	ОН	1-methyl-2-pyrrolyl
NH	n-pentyl	ОН	2-methyl-3-furyl
NH	n-pentyl	ОН	5-methyl-2-thienyl
NH	n-pentyl	ОН	4-methyl-5-imidazolyl
NH	n-pentyl	ОН	1-methyl-3-indolyl
NH	n-pentyl	ОН	2-methoxy-1-naphthyl
NH	n-pentyl	ОН	3-methoxy-2-naphthyl
NH	n-pentyl	ОН	6-ethoxy-2-naphthyl
NH	n-pentyl	ОН	5-methoxy-3-indolyl
NH	n-pentyl	ОН	1,4-dimethoxy-2-naphthyl
NH	n-pentyl	ОН	5,6-dimethoxy-2-indolyl
NH	n-pentyl	ОН	5-methoxy-1-methyl-2-indolyl
NH	n-pentyl	OCOOMe	1-naphthyl
NH	n-pentyl	OCOOMe	2-naphthyl
NH	n-pentyl	OCOOMe	2-pyrrolyl
NH	n-pentyl	OCOOMe	3-pyrrolyl

Table 1 (continued)

			,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-pentyl	OCOOMe	2-furyl
NH	n-pentyl	OCOOMe	3-furyl
NH	n-pentyl	OCOOMe	2-thienyl
NH	n-pentyl	OCOOMe	3-thienyl
NH	n-pentyl	OCOOMe	3-pyrazolyl
NH	n-pentyl	OCOOMe	4-pyrazolyl
NH	n-pentyl	OCOOMe	2-imidazolyl
NH	n-pentyl	OCOOMe	4-imidazolyl
NH	n-pentyl	OCOOMe	2-oxazolyl
NH	n-pentyl	OCOOMe	4-oxazolyl
NH	n-pentyl	OCOOMe	5-oxazolyl
NH	n-pentyl	OCOOMe	2-thiazolyl
NH	n-pentyl	OCOOMe	4-thiazolyl
NH	n-pentyl	OCOOMe	5-thiazolyl
NH	n-pentyl	OCOOMe	2-pyrimidinyl
NH	n-pentyl	OCOOMe	4-pyrimidinyl
NH	n-pentyl	OCOOMe	5-pyrimidinyl
NH	n-pentyl	OCOOMe	2-indolyl
NH	n-pentyl	OCOOMe	3-indolyl
NH	n-pentyl	OCOOMe	5-indolyl
NH	n-pentyl	OCOOMe	6-indolyl
NH	n-pentyl	OCOOMe	5-benzimidazolyl
NH	n-pentyl	OCOOMe	2-benzofuryl
NH	n-pentyl	OCOOMe	3-indazolyl
NH	n-pentyl	OCOOMe	2-benzoxazolyl
NH	n-pentyl	OCOOMe	4-fluoro-1-naphthyl
NH	n-pentyl	OCOOMe	5-chloro-2-thienyl
NH	n-pentyl	OCOOMe	4-methyl-1-naphthyl
NH	n-pentyl	OCOOMe	1-methyl-2-pyrrolyl
NH	n-pentyl	OCOOMe	2-methyl-3-furyl
NH	n-pentyl	OCOOMe	5-methyl-2-thienyl
NH	n-pentyl	OCOOMe	4-methyl-5-imidazolyl
NH	n-pentyl	OCOOMe	1-methyl-3-indolyl
NH	n-pentyl	OCOOMe	2-methoxy-1-naphthyl
NH	n-pentyl	OCOOMe	3-methoxy-2-naphthyl
NH	n-pentyl	OCOOMe	6-ethoxy-2-naphthyl
NH	n-pentyl	OCOOMe	5-methoxy-3-indolyl
NH	n-pentyl	OCOOMe	1,4-dimethoxy-2-naphthyl

Table 1 (continued)

		Table 1 (con	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
NH	n-pentyl	OCOOMe	5,6-dimethoxy-2-indolyl
NH	n-pentyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
NH	n-pentyl	OCOOEt	1-naphthyl
NH	n-pentyl	OCOOEt	2-naphthyl
NH	n-pentyl	OCOOEt	2-pyrrolyl
NH	n-pentyl	OCOOEt	3-pyrrolyl
NH	n-pentyl	OCOOEt	2-furyl
NH	n-pentyl	OCOOEt	3-furyl
NH	n-pentyl	OCOOEt	2-thienyl
NH	n-pentyl	OCOOEt	3-thienyl
NH	n-pentyl	OCOOEt	3-pyrazolyl
NH	n-pentyl	OCOOEt	4-pyrazolyl
NH	n-pentyl	OCOOEt	2-imidazolyl
NH	n-pentyl	OCOOEt	4-imidazolyl
NH	n-pentyl	OCOOEt	2-oxazolyl
NH	n-pentyl	OCOOEt	4-oxazolyl
NH	n-pentyl	OCOOEt	5-oxazolyl
NH	n-pentyl	OCOOEt	2-thiazolyl
NH	n-pentyl	OCOOEt	4-thiazolyl
NH	n-pentyl	OCOOEt	5-thiazolyl
NH	n-pentyl	OCOOEt	2-pyrimidinyl
NH	n-pentyl	OCOOEt	4-pyrimidinyl
NH	n-pentyl	OCOOEt	5-pyrimidinyl
NH	n-pentyl	OCOOEt	2-indolyl
NH	n-pentyl	OCOOEt	3-indolyl
NH	n-pentyl	OCOOEt	5-indolyl
NH	n-pentyl	OCOOEt	6-indolyl
NH	n-pentyl	OCOOEt	5-benzimidazolyl
NH	n-pentyl	OCOOEt	2-benzofuryl
NH	n-pentyl	OCOOEt	3-indazolyl
NH	n-pentyl	OCOOEt	2-benzoxazolyl
NH	n-pentyl	OCOOEt	4-fluoro-1-naphthyl
NH	n-pentyl	OCOOEt	5-chloro-2-thienyl
NH	n-pentyl	OCOOEt	4-methyl-1-naphthyl
NH	n-pentyl	OCOOEt	1-methyl-2-pyrrolyl
NH	n-pentyl	OCOOEt	2-methyl-3-furyl
NH	n-pentyl	OCOOEt	5-methyl-2-thienyl
NH	n-pentyl	OCOOEt	4-methyl-5-imidazolyl

Table 1 (continued)

		,	,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOEt	1-methyl-3-indolyl
NH	n-pentyl	OCOOEt	2-methoxy-1-naphthyl
NH	n-pentyl	OCOOEt	3-methoxy-2-naphthyl
NH	n-pentyl	OCOOEt	6-ethoxy-2-naphthyl
NH	n-pentyl	OCOOEt	5-methoxy-3-indolyl
NH	n-pentyl	OCOOEt	1,4-dimethoxy-2-naphthyl
NH	n-pentyl	OCOOEt	5,6-dimethoxy-2-indolyl
NH	n-pentyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
0	propyl	ОН	1-naphthyl
0	propyl	ОН	2-naphthyl
0	propyl	ОН	2-pyrrolyl
0	propyl	ОН	3-pyrrolyl
0	propyl	ОН	2-furyl
0	propyl	ОН	3-furyl
0	propyl	ОН	2-thienyl
0	propyl	ОН	3-thienyl
0	propyl	ОН	3-pyrazolyl
0	propyl	ОН	4-pyrazolyl
0	propyl	ОН	2-imidazolyl
0	propyl	ОН	4-imidazolyl
0	propyl	ОН	2-oxazolyl
0	propyl	ОН	4-oxazolyl
0	propyl	ОН	5-oxazolyl
0	propyl	ОН	2-thiazolyl
0	propyl	ОН	4-thiazolyl
0	propyl	ОН	5-thiazolyl
0	propyl	ОН	2-pyrimidinyl
0	propyl	ОН	4-pyrimidinyl
0	propyl	ОН	5-pyrimidinyl
0	propyl	ОН	2-indolyl
0	propyl	ОН	3-indolyl
0	propyl	OH	5-indolyl
0	propyl	ОН	6-indolyl
0	propyl	ОН	5-benzimidazolyl
0	propyl	ОН	2-benzofuryl
0	propyl	ОН	3-indazolyl
0	propyl	OH	2-benzoxazolyl
0	propyl	ОН	4-fluoro-1-naphthyl

Table 1 (continued)

		,	
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	ОН	5-chloro-2-thienyl
0	propyl	ОН	4-methyl-1-naphthyl
0	propyl	ОН	1-methyl-2-pyrrolyl
0	propyl	ОН	2-methyl-3-furyl
0	propyl	ОН	5-methyl-2-thienyl
0	propyl	ОН	4-methyl-5-imidazolyl
0	propyl	ОН	1-methyl-3-indolyl
0	propyl	ОН	2-methoxy-1-naphthyl
0	propyl	ОН	3-methoxy-2-naphthyl
0	propyl	ОН	6-ethoxy-2-naphthyl
0	propyl	ОН	5-methoxy-3-indolyl
0	propyl	ОН	1,4-dimethoxy-2-naphthyl
0	propyl	ОН	5,6-dimethoxy-2-indolyl
0	propyl	ОН	5-methoxy-1-methyl-2-indolyl
0	propyl	OCOOMe	1-naphthyl
0	propyl	OCOOMe	2-naphthyl
0	propyl	OCOOMe	2-pyrrolyl
0	propyl	OCOOMe	3-pyrrolyl
0	propyl	OCOOMe	2-furyl
0	propyl	OCOOMe	3-furyl
0	propyl	OCOOMe	2-thienyl
0	propyl	OCOOMe	3-thienyl
0	propyl	OCOOMe	3-pyrazolyl
0	propyl	OCOOMe	4-pyrazolyl
0	propyl	OCOOMe	2-imidazolyl
0	propyl	OCOOMe	4-imidazolyl
0	propyl	OCOOMe	2-oxazolyl
0	propyl	OCOOMe	4-oxazolyl
0	propyl	OCOOMe	5-oxazolyl
0	propyl	OCOOMe	2-thiazolyl
0	propyl	OCOOMe	4-thiazolyl
0	propyl	OCOOMe	5-thiazolyl
0	propyl	OCOOMe	2-pyrimidinyl
0	propyl	OCOOMe	4-pyrimidinyl
0	propyl	OCOOMe	5-pyrimidinyl
0	propyl	OCOOMe	2-indolyl
0	propyl	OCOOMe	3-indolyl
0	propyl	OCOOMe	5-indolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	propyl	OCOOMe	6-indolyl
0	propyl	OCOOMe	5-benzimidazolyl
0	propyl	OCOOMe	2-benzofuryl
0	propyl	OCOOMe	3-indazolyl
0	propyl	OCOOMe	2-benzoxazolyl
0	propyl	OCOOMe	4-fluoro-1-naphthyl
0	propyl	OCOOMe	5-chloro-2-thienyl
0	propyl	OCOOMe	4-methyl-1-naphthyl
0	propyl	OCOOMe	1-methyl-2-pyrrolyl
0	propyl	OCOOMe	2-methyl-3-furyl
0	propyl	OCOOMe	5-methyl-2-thienyl
0	propyl	OCOOMe	4-methyl-5-imidazolyl
0	propyl	OCOOMe	1-methyl-3-indolyl
0	propyl	OCOOMe	2-methoxy-1-naphthyl
0	propyl	OCOOMe	3-methoxy-2-naphthyl
0	propyl	OCOOMe	6-ethoxy-2-naphthyl
0	propyl	OCOOMe	5-methoxy-3-indolyl
0	propyl	OCOOMe	1,4-dimethoxy-2-naphthyl
0	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
0	propyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
0	propyl	OCOOEt	1-naphthyl
0	propyl	OCOOEt	2-naphthyl
0	propyl	OCOOEt	2-pyrrolyl
0	propyl	OCOOEt	3-pyrrolyl
0	propyl	OCOOEt	2-furyl
0	propyl	OCOOEt	3-furyl
0	propyl	OCOOEt	2-thienyl
0	propyl	OCOOEt	3-thienyl
0	propyl	OCOOEt	3-pyrazolyl
0	propyl	OCOOEt	4-pyrazolyl
0	propyl	OCOOEt	2-imidazolyl
0	propyl	OCOOEt	4-imidazolyl
0	propyl	OCOOEt	2-oxazolyl
0	propyl	OCOOEt	4-oxazolyl
0	propyl	OCOOEt	5-oxazolyl
0	propyl	OCOOEt	2-thiazolyl
0	propyl	OCOOEt	4-thiazolyl
0	propyl	OCOOEt	5-thiazolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	propyl	OCOOEt	2-pyrimidinyl
0	propyl	OCOOEt	4-pyrimidinyl
0	propyl	OCOOEt	5-pyrimidinyl
0	propyl	OCOOEt	2-indolyl
0	propyl	OCOOEt	3-indolyl
0	propyl	OCOOEt	5-indolyl
0	propyl	OCOOEt	6-indolyl
0	propyl	OCOOEt	5-benzimidazolyl
0	propyl	OCOOEt	2-benzofuryl
0	propyl	OCOOEt	3-indazolyl
0	propyl	OCOOEt	2-benzoxazolyl
0	propyl	OCOOEt	4-fluoro-1-naphthyl
0	propyl	OCOOEt	5-chloro-2-thienyl
0	propyl	OCOOEt	4-methyl-1-naphthyl
0	propyl	OCOOEt	1-methyl-2-pyrrolyl
0	propyl	OCOOEt	2-methyl-3-furyl
0	propyl	OCOOEt	5-methyl-2-thienyl
0	propyl	OCOOEt	4-methyl-5-imidazolyl
0	propyl	OCOOEt	1-methyl-3-indolyl
0	propyl	OCOOEt	2-methoxy-1-naphthyl
0	propyl	OCOOEt	3-methoxy-2-naphthyl
0	propyl	OCOOEt	6-ethoxy-2-naphthyl
0	propyl	OCOOEt	5-methoxy-3-indolyl
0	propyl	OCOOEt	1,4-dimethoxy-2-naphthyl
0	propyl	OCOOEt	5,6-dimethoxy-2-indolyl
0	propyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
0	n-butyl	ОН	1-naphthyl
0	n-butyl	ОН	2-naphthyl
0	n-butyl	ОН	2-pyrrolyl
0	n-butyl	ОН	3-pyrrolyl
0	n-butyl	ОН	2-furyl
0	n-butyl	ОН	3-furyl
0	n-butyl	ОН	2-thienyl
0	n-butyl	ОН	3-thienyl
0	n-butyl	ОН	3-pyrazolyl
0	n-butyl	ОН	4-pyrazolyl
0	n-butyl	ОН	2-imidazolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-butyl	OH	2-oxazolyl
0	n-butyl	ОН	4-oxazolyl
0	n-butyl	ОН	5-oxazolyl
0	n-butyl	ОН	2-thiazolyl
0	n-butyl	ОН	4-thiazolyl
0	n-butyl	ОН	5-thiazolyl
0	n-butyl	ОН	2-pyrimidinyl
0	n-butyl	OH -	4-pyrimidinyl
0	n-butyl	ОН	5-pyrimidinyl
0	n-butyl	ОН	2-indolyl
0	n-butyl	ОН	3-indolyl
0	n-butyl	ОН	5-indolyl
0	n-butyl	ОН	6-indolyl
0	n-butyl	ОН	5-benzimidazolyl
0	n-butyl	ОН	2-benzofuryl
0	n-butyl	ОН	3-indazolyl
0	n-butyl	ОН	2-benzoxazolyl
0	n-butyl	ОН	4-fluoro-1-naphthyl
0	n-butyl	ОН	5-chloro-2-thienyl
0	n-butyl	ОН	4-methyl-1-naphthyl
0	n-butyl	ОН	1-methyl-2-pyrrolyl
0	n-butyl	ОН	2-methyl-3-furyl
0	n-butyl	ОН	5-methyl-2-thienyl
0	n-butyl	ОН	4-methyl-5-imidazolyl
0	n-butyl	ОН	1-methyl-3-indolyl
0	n-butyl	OH	2-methoxy-1-naphthyl
0	n-butyl	ОН	3-methoxy-2-naphthyl
0	n-butyl	ОН	6-ethoxy-2-naphthyl
0	n-butyl	ОН	5-methoxy-3-indolyl
0	n-butyl	ОН	1,4-dimethoxy-2-naphthyl
0	n-butyl	OH	5,6-dimethoxy-2-indolyl
0	n-butyl	OH	5-methoxy-1-methyl-2-indolyl
0	n-butyl	OCOOMe	1-naphthyl
0	n-butyl	OCOOMe	2-naphthyl
0	n-butyl	OCOOMe	2-pyrrolyl
0	n-butyl	OCOOMe	3-pyrrolyl
0	n-butyl	OCOOMe	2-furyl
0	n-butyl	OCOOMe	3-furyl

Table 1 (continued)

		Table 1 (com	,
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-butyl	OCOOMe	2-thienyl
0	n-butyl	OCOOMe	3-thienyl
0	n-butyl	OCOOMe	3-pyrazolyl
0	n-butyl	OCOOMe	4-pyrazolyl
0	n-butyl	OCOOMe	2-imidazolyl
0	n-butyl	OCOOMe	4-imidazolyl
0	n-butyl	OCOOMe	2-oxazolyl
0	n-butyl	OCOOMe	4-oxazolyl
0	n-butyl	OCOOMe	5-oxazolyl
0	n-butyl	OCOOMe	2-thiazolyl
0	n-butyl	OCOOMe	4-thiazolyl
0	n-butyl	OCOOMe	5-thiazolyl
0	n-butyl	OCOOMe	2-pyrimidinyl
0	n-butyl	OCOOMe	4-pyrimidinyl
0	n-butyl	OCOOMe	5-pyrimidinyl
0	n-butyl	OCOOMe	2-indolyl
0	n-butyl	OCOOMe	3-indolyl
0	n-butyl	OCOOMe	5-indolyl
0	n-butyl	OCOOMe	6-indolyl
0	n-butyl	OCOOMe	5-benzimidazolyl
0	n-butyl	OCOOMe	2-benzofuryl
0	n-butyl	OCOOMe	3-indazolyl
0	n-butyl	OCOOMe	2-benzoxazolyl
0	n-butyl	OCOOMe	4-fluoro-1-naphthyl
0	n-butyl	OCOOMe	5-chloro-2-thienyl
0	n-butyl	OCOOMe	4-methyl-1-naphthyl
0	n-butyl	OCOOMe	1-methyl-2-pyrrolyl
0	n-butyl	OCOOMe	2-methyl-3-furyl
0	n-butyl	OCOOMe	5-methyl-2-thienyl
0	n-butyl	OCOOMe	4-methyl-5-imidazolyl
0	n-butyl	OCOOMe	1-methyl-3-indolyl
0	n-butyl	OCOOMe	2-methoxy-1-naphthyl
0	n-butyl	OCOOMe	3-methoxy-2-naphthyl
0	n-butyl	OCOOMe	6-ethoxy-2-naphthyl
0	n-butyl	OCOOMe	5-methoxy-3-indolyl
0	n-butyl	OCOOMe	1,4-dimethoxy-2-naphthyl
0	n-butyl	OCOOMe	5,6-dimethoxy-2-indolyl
0	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

Table 1 (continued)

X	R <sup>1</sup>	R <sup>2</sup>	Υ
0	n-butyl	OCOOEt	1-naphthyl
0	n-butyl	OCOOEt	2-naphthyl
0	n-butyl	OCOOEt	2-pyrrolyl
0	n-butyl	OCOOEt	3-pyrrolyl
0	n-butyl	OCOOEt	2-furyl
0	n-butyl	OCOOEt	3-furyl
0	n-butyl	OCOOEt	2-thienyl
0	n-butyl	OCOOEt	3-thienyl
0	n-butyl	OCOOEt	3-pyrazolyl
0	n-butyl	OCOOEt	4-pyrazolyl
0	n-butyl	OCOOEt	2-imidazolyl
0	n-butyl	OCOOEt	4-imidazolyl
0	n-butyl	OCOOEt	2-oxazolyl
0	n-butyl	OCOOEt	4-oxazolyl
0	n-butyl	OCOOEt	5-oxazolyl
0	n-butyl	OCOOEt	2-thiazolyl
0	n-butyl	OCOOEt	4-thiazolyl
0	n-butyl	OCOOEt	5-thiazolyl
0	n-butyl	OCOOEt	2-pyrimidinyl
0	n-butyl	OCOOEt	4-pyrimidinyl
0	n-butyl	OCOOEt	5-pyrimidinyl
0	n-butyl	OCOOEt	2-indolyl
0	n-butyl	OCOOEt	3-indolyl
0	n-butyl	OCOOEt	5-indolyl
0	n-butyl	OCOOEt	6-indolyl
0	n-butyl	OCOOEt	5-benzimidazolyl
0	n-butyl	OCOOEt	2-benzofuryl
0	n-butyl	OCOOEt	3-indazolyl
0	n-butyl	OCOOEt	2-benzoxazolyl
0	n-butyl	OCOOEt	4-fluoro-1-naphthyl
0	n-butyl	OCOOEt	5-chloro-2-thienyl
0	n-butyl	OCOOEt	4-methyl-1-naphthyl
0	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
0	n-butyl	OCOOEt	2-methyl-3-furyl
0	n-butyl	OCOOEt	5-methyl-2-thienyl
0	n-butyl	OCOOEt	4-methyl-5-imidazolyl
0	n-butyl	OCOOEt	1-methyl-3-indolyl
0	n-butyl	OCOOEt	2-methoxy-1-naphthyl

Table 1 (continued)

X         R1         R2         Y           O         n-butyl         OCOOEt         3-methoxy-2-naphthyl           O         n-butyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-butyl         OCOOEt         5-methoxy-2-naphthyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-naphthyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-pyrraclyl           O         n-pentyl         OH         3-pyrrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pe			Table 1 (con	
O         n-butyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-butyl         OCOOEt         5-methoxy-3-indolyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-naphthyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         1-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl <t< td=""><td>Х</td><td>R<sup>1</sup></td><td>R<sup>2</sup></td><td>Υ</td></t<>	Х	R <sup>1</sup>	R <sup>2</sup>	Υ
O         n-butyl         OCOOEt         5-methoxy-3-indolyl           O         n-butyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH	0	n-butyl	OCOOEt	3-methoxy-2-naphthyl
O         n-butyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-butyl         OCOOEt         5,6-dimethoxy-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         1-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         4-thia	0	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
O         n-butyl         OCOOEt         5,6-dimethoxy-2-indolyl           O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         1-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl	0	n-butyl	OCOOEt	5-methoxy-3-indolyl
O         n-butyl         OCOOEt         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         1-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl	0	n-butyl	OCOOEt	1,4-dimethoxy-2-naphthyl
O         n-pentyl         OH         1-naphthyl           O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O	0	n-butyl	OCOOEt	5,6-dimethoxy-2-indolyl
O         n-pentyl         OH         2-naphthyl           O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         2-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         4-cxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl <t< td=""><td>0</td><td>n-butyl</td><td>OCOOEt</td><td>5-methoxy-1-methyl-2-indolyl</td></t<>	0	n-butyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
O         n-pentyl         OH         2-pyrrolyl           O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         2-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           <	0	n-pentyl	ОН	1-naphthyl
O         n-pentyl         OH         3-pyrrolyl           O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         2-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         3-indolyl <t< td=""><td>0</td><td>n-pentyl</td><td>ОН</td><td>2-naphthyl</td></t<>	0	n-pentyl	ОН	2-naphthyl
O         n-pentyl         OH         2-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         3-indolyl           O	0	n-pentyl	ОН	2-pyrrolyl
O         n-pentyl         OH         3-furyl           O         n-pentyl         OH         2-thienyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-benzimidazolyl	0	n-pentyl	ОН	3-pyrrolyl
O         n-pentyl         OH         2-thienyl           O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         3-thiazolyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         3-indazolyl	0	n-pentyl	ОН	2-furyl
O         n-pentyl         OH         3-thienyl           O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl <t< td=""><td>0</td><td>n-pentyl</td><td>ОН</td><td>3-furyl</td></t<>	0	n-pentyl	ОН	3-furyl
O         n-pentyl         OH         3-pyrazolyl           O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         2-benzoxazolyl	0	n-pentyl	ОН	2-thienyl
O         n-pentyl         OH         4-pyrazolyl           O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         3-indazolyl      <	0	n-pentyl	ОН	3-thienyl
O         n-pentyl         OH         2-imidazolyl           O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl	0	n-pentyl	ОН	3-pyrazolyl
O         n-pentyl         OH         4-imidazolyl           O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl	0	n-pentyl	ОН	4-pyrazolyl
O         n-pentyl         OH         2-oxazolyl           O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	2-imidazolyl
O         n-pentyl         OH         4-oxazolyl           O         n-pentyl         OH         5-oxazolyl           O         n-pentyl         OH         2-thiazolyl           O         n-pentyl         OH         4-thiazolyl           O         n-pentyl         OH         5-thiazolyl           O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	4-imidazolyl
O n-pentyl OH 5-oxazolyl O n-pentyl OH 2-thiazolyl O n-pentyl OH 4-thiazolyl O n-pentyl OH 5-thiazolyl O n-pentyl OH 5-thiazolyl O n-pentyl OH 2-pyrimidinyl O n-pentyl OH 4-pyrimidinyl O n-pentyl OH 5-pyrimidinyl O n-pentyl OH 2-indolyl O n-pentyl OH 3-indolyl O n-pentyl OH 5-indolyl O n-pentyl OH 5-benzimidazolyl O n-pentyl OH 5-benzofuryl O n-pentyl OH 3-indazolyl O n-pentyl OH 4-fluoro-1-naphthyl O n-pentyl OH 4-fluoro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	2-oxazolyl
O n-pentyl OH 2-thiazolyl O n-pentyl OH 4-thiazolyl O n-pentyl OH 5-thiazolyl O n-pentyl OH 2-pyrimidinyl O n-pentyl OH 4-pyrimidinyl O n-pentyl OH 5-pyrimidinyl O n-pentyl OH 2-indolyl O n-pentyl OH 3-indolyl O n-pentyl OH 5-indolyl O n-pentyl OH 5-benzimidazolyl O n-pentyl OH 3-indazolyl O n-pentyl OH 5-chloro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	4-oxazolyl
O n-pentyl OH 4-thiazolyl O n-pentyl OH 5-thiazolyl O n-pentyl OH 2-pyrimidinyl O n-pentyl OH 4-pyrimidinyl O n-pentyl OH 5-pyrimidinyl O n-pentyl OH 5-pyrimidinyl O n-pentyl OH 3-indolyl O n-pentyl OH 5-indolyl O n-pentyl OH 6-indolyl O n-pentyl OH 5-benzimidazolyl O n-pentyl OH 2-benzofuryl O n-pentyl OH 3-indazolyl O n-pentyl OH 5-benzoxazolyl O n-pentyl OH 5-chloro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	5-oxazolyl
O n-pentyl OH 5-thiazolyl O n-pentyl OH 2-pyrimidinyl O n-pentyl OH 4-pyrimidinyl O n-pentyl OH 5-pyrimidinyl O n-pentyl OH 2-indolyl O n-pentyl OH 3-indolyl O n-pentyl OH 5-indolyl O n-pentyl OH 6-indolyl O n-pentyl OH 5-benzimidazolyl O n-pentyl OH 2-benzofuryl O n-pentyl OH 3-indazolyl O n-pentyl OH 2-benzoxazolyl O n-pentyl OH 3-indazolyl O n-pentyl OH 3-indazolyl O n-pentyl OH 3-indazolyl O n-pentyl OH 3-indazolyl O n-pentyl OH 5-benzoxazolyl O n-pentyl OH 5-chloro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	2-thiazolyl
O         n-pentyl         OH         2-pyrimidinyl           O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	4-thiazolyl
O         n-pentyl         OH         4-pyrimidinyl           O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	5-thiazolyl
O         n-pentyl         OH         5-pyrimidinyl           O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	2-pyrimidinyl
O         n-pentyl         OH         2-indolyl           O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	4-pyrimidinyl
O         n-pentyl         OH         3-indolyl           O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	5-pyrimidinyl
O         n-pentyl         OH         5-indolyl           O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	2-indolyl
O         n-pentyl         OH         6-indolyl           O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	3-indolyl
O         n-pentyl         OH         5-benzimidazolyl           O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	5-indolyl
O         n-pentyl         OH         2-benzofuryl           O         n-pentyl         OH         3-indazolyl           O         n-pentyl         OH         2-benzoxazolyl           O         n-pentyl         OH         4-fluoro-1-naphthyl           O         n-pentyl         OH         5-chloro-2-thienyl	0	n-pentyl	ОН	6-indolyl
O n-pentyl OH 3-indazolyl O n-pentyl OH 2-benzoxazolyl O n-pentyl OH 4-fluoro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	5-benzimidazolyl
O n-pentyl OH 2-benzoxazolyl O n-pentyl OH 4-fluoro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	2-benzofuryl
O n-pentyl OH 4-fluoro-1-naphthyl O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	3-indazolyl
O n-pentyl OH 5-chloro-2-thienyl	0	n-pentyl	ОН	2-benzoxazolyl
	0	n-pentyl	ОН	4-fluoro-1-naphthyl
O n-pentyl OH 4-methyl-1-naphthyl	0	n-pentyl	ОН	5-chloro-2-thienyl
1 1	0	n-pentyl	ОН	4-methyl-1-naphthyl

Table 1 (continued)

X         R1         R2         Y           O         n-pentyl         OH         1-methyl-2-pyrrolyl           O         n-pentyl         OH         2-methyl-3-furyl           O         n-pentyl         OH         5-methyl-2-thienyl           O         n-pentyl         OH         4-methyl-5-imidazolyl           O         n-pentyl         OH         1-methyl-3-indolyl           O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-3-indolyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOMe         1-naphthyl           O         n-pentyl         OCOMe         2-naphthyl           O         n-pentyl         OCOMe         2-naphthyl           O         n-pentyl         OCOMe         3-furyl <t< th=""><th></th><th></th><th></th><th></th></t<>				
O         n-pentyl         OH         2-methyl-3-furyl           O         n-pentyl         OH         5-methyl-2-thienyl           O         n-pentyl         OH         4-methyl-5-imidazolyl           O         n-pentyl         OH         1-methyl-3-indolyl           O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-3-indolyl           O         n-pentyl         OH         5-dimethoxy-2-naphthyl           O         n-pentyl         OH         5-dimethoxy-2-indolyl           O         n-pentyl         OCOMe         1-naphthyl           O         n-pentyl         OCOMe         2-naphthyl           O         n-pentyl         OCOMe         2-pyrrolyl           O         n-pentyl         OCOMe         2-furyl           O         n-pentyl         OCOMe         3-pyrrolyl           O         n-pentyl         OCOMe         3-furyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-thienyl           O <td< td=""><td>Х</td><td>R<sup>1</sup></td><td>R<sup>2</sup></td><td>Υ</td></td<>	Х	R <sup>1</sup>	R <sup>2</sup>	Υ
O         n-pentyl         OH         5-methyl-2-thienyl           O         n-pentyl         OH         4-methyl-5-imidazolyl           O         n-pentyl         OH         1-methyl-5-imidazolyl           O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OCOMe         1-naphthyl           O         n-pentyl         OCOMe         2-naphthyl           O         n-pentyl         OCOMe         2-pyrrolyl           O         n-pentyl         OCOMe         2-furyl           O         n-pentyl         OCOMe         2-furyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-pyrazolyl           O	0	n-pentyl	ОН	1-methyl-2-pyrrolyl
O         n-pentyl         OH         4-methyl-5-imidazolyl           O         n-pentyl         OH         1-methyl-3-indolyl           O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-3-indolyl           O         n-pentyl         OH         5,6-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           <	0	n-pentyl	ОН	2-methyl-3-furyl
O         n-pentyl         OH         1-methyl-3-indolyl           O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5-dimethoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOMe         1-naphthyl           O         n-pentyl         OCOMe         2-pyrrolyl           O         n-pentyl         OCOMe         2-pyrrolyl           O         n-pentyl         OCOMe         3-pyrrolyl           O         n-pentyl         OCOMe         2-furyl           O         n-pentyl         OCOMe         3-furyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-thienyl           O         n-pentyl         OCOMe         3-pyrazolyl           O         n-pentyl         OCOMe         4-pyrazolyl           O <t< td=""><td>0</td><td>n-pentyl</td><td>ОН</td><td>5-methyl-2-thienyl</td></t<>	0	n-pentyl	ОН	5-methyl-2-thienyl
O         n-pentyl         OH         2-methoxy-1-naphthyl           O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         6-ethoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OH         5-dimethoxy-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         2-tripl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         2-turyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-triplyl           O         n-pentyl         OCOOMe         3-triplyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-p	0	n-pentyl	ОН	4-methyl-5-imidazolyl
O         n-pentyl         OH         3-methoxy-2-naphthyl           O         n-pentyl         OH         6-ethoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-2-naphthyl           O         n-pentyl         OH         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         3-trienyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O <td>0</td> <td>n-pentyl</td> <td>ОН</td> <td>1-methyl-3-indolyl</td>	0	n-pentyl	ОН	1-methyl-3-indolyl
O         n-pentyl         OH         6-ethoxy-2-naphthyl           O         n-pentyl         OH         5-methoxy-3-indolyl           O         n-pentyl         OH         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O	0	n-pentyl	ОН	2-methoxy-1-naphthyl
O         n-pentyl         OH         5-methoxy-3-indolyl           O         n-pentyl         OH         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl	0	n-pentyl	ОН	3-methoxy-2-naphthyl
O         n-pentyl         OH         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         2-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         5-oxazolyl           O         n-penty	0	n-pentyl	ОН	6-ethoxy-2-naphthyl
O         n-pentyl         OH         5,6-dimethoxy-2-indolyl           O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         4-thiazolyl           O         n-pentyl         OCOOMe         4-thiazolyl           O         n-pentyl	0	n-pentyl	OH	5-methoxy-3-indolyl
O         n-pentyl         OH         5-methoxy-1-methyl-2-indolyl           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         2-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         2-thiazolyl           O         n-pentyl         <	0	n-pentyl	ОН	1,4-dimethoxy-2-naphthyl
O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl           O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         3-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         5-oxazolyl           O         n-pentyl         OCOOMe         2-thiazolyl           O         n-pentyl         OCOOMe         4-thiazolyl           O         n-pentyl         OCOOMe         4-pyrimidinyl           O         n-pentyl         O	0	n-pentyl	ОН	5,6-dimethoxy-2-indolyl
O n-pentyl OCOOMe 2-naphthyl O n-pentyl OCOOMe 2-pyrrolyl O n-pentyl OCOOMe 3-pyrrolyl O n-pentyl OCOOMe 3-pyrrolyl O n-pentyl OCOOMe 3-furyl O n-pentyl OCOOMe 3-furyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	ОН	5-methoxy-1-methyl-2-indolyl
O         n-pentyl         OCOOMe         2-pyrrolyl           O         n-pentyl         OCOOMe         3-pyrrolyl           O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         2-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         2-imidazolyl           O         n-pentyl         OCOOMe         2-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         2-oxazolyl           O         n-pentyl         OCOOMe         5-oxazolyl           O         n-pentyl         OCOOMe         2-thiazolyl           O         n-pentyl         OCOOMe         4-thiazolyl           O         n-pentyl         OCOOMe         5-thiazolyl           O         n-pentyl         OCOOMe         4-pyrimidinyl           O         n-pentyl         OCOOMe         5-pyrimidinyl           O         n-pentyl	0	n-pentyl	OCOOMe	1-naphthyl
O n-pentyl OCOOMe 3-pyrrolyl O n-pentyl OCOOMe 2-furyl O n-pentyl OCOOMe 3-furyl O n-pentyl OCOOMe 3-furyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	2-naphthyl
O         n-pentyl         OCOOMe         2-furyl           O         n-pentyl         OCOOMe         3-furyl           O         n-pentyl         OCOOMe         2-thienyl           O         n-pentyl         OCOOMe         3-pyrazolyl           O         n-pentyl         OCOOMe         4-pyrazolyl           O         n-pentyl         OCOOMe         2-imidazolyl           O         n-pentyl         OCOOMe         4-imidazolyl           O         n-pentyl         OCOOMe         2-oxazolyl           O         n-pentyl         OCOOMe         4-oxazolyl           O         n-pentyl         OCOOMe         5-oxazolyl           O         n-pentyl         OCOOMe         2-thiazolyl           O         n-pentyl         OCOOMe         4-thiazolyl           O         n-pentyl         OCOOMe         2-pyrimidinyl           O         n-pentyl         OCOOMe         4-pyrimidinyl           O         n-pentyl         OCOOMe         5-pyrimidinyl           O         n-pentyl         OCOOMe         2-indolyl           O         n-pentyl         OCOOMe         3-indolyl           O         n-pentyl <t< td=""><td>0</td><td>n-pentyl</td><td>OCOOMe</td><td>2-pyrrolyl</td></t<>	0	n-pentyl	OCOOMe	2-pyrrolyl
O n-pentyl OCOOMe 3-furyl O n-pentyl OCOOMe 2-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	3-pyrrolyl
O n-pentyl OCOOMe 2-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	2-furyl
O n-pentyl OCOOMe 3-thienyl O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	3-furyl
O n-pentyl OCOOMe 3-pyrazolyl O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	2-thienyl
O n-pentyl OCOOMe 4-pyrazolyl O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	3-thienyl
O n-pentyl OCOOMe 2-imidazolyl O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	3-pyrazolyl
O n-pentyl OCOOMe 4-imidazolyl O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	4-pyrazolyl
O n-pentyl OCOOMe 2-oxazolyl O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	2-imidazolyl
O n-pentyl OCOOMe 4-oxazolyl O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	4-imidazolyl
O n-pentyl OCOOMe 5-oxazolyl O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl	0	n-pentyl	OCOOMe	2-oxazolyl
O n-pentyl OCOOMe 2-thiazolyl O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 2-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	4-oxazolyl
O n-pentyl OCOOMe 4-thiazolyl O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 2-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	5-oxazolyl
O n-pentyl OCOOMe 5-thiazolyl O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 2-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	2-thiazolyl
O n-pentyl OCOOMe 2-pyrimidinyl O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 2-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	4-thiazolyl
O n-pentyl OCOOMe 4-pyrimidinyl O n-pentyl OCOOMe 5-pyrimidinyl O n-pentyl OCOOMe 2-indolyl O n-pentyl OCOOMe 3-indolyl O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	5-thiazolyl
O         n-pentyl         OCOOMe         5-pyrimidinyl           O         n-pentyl         OCOOMe         2-indolyl           O         n-pentyl         OCOOMe         3-indolyl           O         n-pentyl         OCOOMe         5-indolyl           O         n-pentyl         OCOOMe         6-indolyl	0	n-pentyl	OCOOMe	2-pyrimidinyl
O         n-pentyl         OCOOMe         2-indolyl           O         n-pentyl         OCOOMe         3-indolyl           O         n-pentyl         OCOOMe         5-indolyl           O         n-pentyl         OCOOMe         6-indolyl	0	n-pentyl	OCOOMe	4-pyrimidinyl
O         n-pentyl         OCOOMe         3-indolyl           O         n-pentyl         OCOOMe         5-indolyl           O         n-pentyl         OCOOMe         6-indolyl	0	n-pentyl	OCOOMe	5-pyrimidinyl
O n-pentyl OCOOMe 5-indolyl O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	2-indolyl
O n-pentyl OCOOMe 6-indolyl	0	n-pentyl	OCOOMe	3-indolyl
	0	n-pentyl	OCOOMe	5-indolyl
O n-pentyl OCOOMe 5-benzimidazolyl	0	n-pentyl	OCOOMe	6-indolyl
, , , , , , , , , , , , , , , , , , ,	0	n-pentyl	OCOOMe	5-benzimidazolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-pentyl	OCOOMe	2-benzofuryl
0	n-pentyl	OCOOMe	3-indazolyl
0	n-pentyl	OCOOMe	2-benzoxazolyl
0	n-pentyl	OCOOMe	4-fluoro-1-naphthyl
0	n-pentyl	OCOOMe	5-chloro-2-thienyl
0	n-pentyl	OCOOMe	4-methyl-1-naphthyl
0	n-pentyl	OCOOMe	1-methyl-2-pyrrolyl
0	n-pentyl	OCOOMe	2-methyl-3-furyl
0	n-pentyl	OCOOMe	5-methyl-2-thienyl
0	n-pentyl	OCOOMe	4-methyl-5-imidazolyl
0	n-pentyl	OCOOMe	1-methyl-3-indolyl
0	n-pentyl	OCOOMe	2-methoxy-1-naphthyl
0	n-pentyl	OCOOMe	3-methoxy-2-naphthyl
0	n-pentyl	OCOOMe	6-ethoxy-2-naphthyl
0	n-pentyl	OCOOMe	5-methoxy-3-indolyl
0	n-pentyl	OCOOMe	1,4-dimethoxy-2-naphthyl
0	n-pentyl	OCOOMe	5,6-dimethoxy-2-indolyl
0	n-pentyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
0	n-pentyl	OCOOEt	1-naphthyl
0	n-pentyl	OCOOEt	2-naphthyl
0	n-pentyl	OCOOEt	2-pyrrolyl
0	n-pentyl	OCOOEt	3-pyrrolyl
0	n-pentyl	OCOOEt	2-furyl
0	n-pentyl	OCOOEt	3-furyl
0	n-pentyl	OCOOEt	2-thienyl
0	n-pentyl	OCOOEt	3-thienyl
0	n-pentyl	OCOOEt	3-pyrazolyl
0	n-pentyl	OCOOEt	4-pyrazolyl
0	n-pentyl	OCOOEt	2-imidazolyl
0	n-pentyl	OCOOEt	4-imidazolyl
0	n-pentyl	OCOOEt	2-oxazolyl
0	n-pentyl	OCOOEt	4-oxazolyl
0	n-pentyl	OCOOEt	5-oxazolyl
0	n-pentyl	OCOOEt	2-thiazolyl
0	n-pentyl	OCOOEt	4-thiazolyl
0	n-pentyl	OCOOEt	5-thiazolyl
0	n-pentyl	OCOOEt	2-pyrimidinyl
0	n-pentyl	OCOOEt	4-pyrimidinyl

Table 1 (continued)

X	R1 n-pentyl	R2 OCOOEt	Y 5-pyrimidinyl 2-indolyl 3-indolyl 5-indolyl 6-indolyl 5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
	n-pentyl	OCOOEt	2-indolyl 3-indolyl 5-indolyl 6-indolyl 5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
	n-pentyl	OCOOEt	3-indolyl 5-indolyl 6-indolyl 5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
	n-pentyl	OCOOEt	5-indolyl 6-indolyl 5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
	n-pentyl	OCOOEt	6-indolyl 5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
	n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	5-benzimidazolyl 2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0 0 0 0	n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	2-benzofuryl 3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0 0	n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	3-indazolyl 2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	2-benzoxazolyl 4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	4-fluoro-1-naphthyl 5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt OCOOEt	5-chloro-2-thienyl 4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt OCOOEt OCOOEt	4-methyl-1-naphthyl 1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0 0 0	n-pentyl n-pentyl n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt OCOOEt	1-methyl-2-pyrrolyl 2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0 0	n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt	2-methyl-3-furyl 5-methyl-2-thienyl 4-methyl-5-imidazolyl
0 0	n-pentyl n-pentyl n-pentyl	OCOOEt OCOOEt	5-methyl-2-thienyl 4-methyl-5-imidazolyl
0	n-pentyl n-pentyl	OCOOEt	4-methyl-5-imidazolyl
0	n-pentyl		
		00005+	
0			1-methyl-3-indolyl
	n-pentyl	OCOOEt	2-methoxy-1-naphthyl
0	n-pentyl	OCOOEt	3-methoxy-2-naphthyl
0	n-pentyl	OCOOEt	6-ethoxy-2-naphthyl
0	n-pentyl	OCOOEt	5-methoxy-3-indolyl
0	n-pentyl	OCOOEt	1,4-dimethoxy-2-naphthyl
0	n-pentyl	OCOOEt	5,6-dimethoxy-2-indolyl
0	n-pentyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
S	propyl	ОН	1-naphthyl
S	propyl	ОН	2-naphthyl
S	propyl	ОН	2-pyrrolyl
S	propyl	ОН	3-pyrrolyl
S	propyl	ОН	2-furyl
S	propyl	ОН	3-furyl
S	propyl	ОН	2-thienyl
S	propyl	ОН	3-thienyl
S	propyl	ОН	3-pyrazolyl
S	propyl	ОН	4-pyrazolyl
S	propyl	ОН	2-imidazolyl
S	propyl	ОН	4-imidazolyl
S	propyl	ОН	2-oxazolyl
S	propyl	ОН	4-oxazolyl

Table 1 (continued)

		,	•
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	ОН	5-oxazolyl
S	propyl	ОН	2-thiazolyl
S	propyl	ОН	4-thiazolyl
S	propyl	ОН	5-thiazolyl
S	propyl	ОН	2-pyrimidinyl
S	propyl	ОН	4-pyrimidinyl
S	propyl	ОН	5-pyrimidinyl
S	propyl	ОН	2-indolyl
S	propyl	ОН	3-indolyl
S	propyl	ОН	5-indolyl
S	propyl	ОН	6-indolyl
S	propyl	ОН	5-benzimidazolyl
S	propyl	ОН	2-benzofuryl
S	propyl	ОН	3-indazolyl
S	propyl	ОН	2-benzoxazolyl
S	propyl	ОН	4-fluoro-1-naphthyl
S	propyl	ОН	5-chloro-2-thienyl
S	propyl	ОН	4-methyl-1-naphthyl
S	propyl	ОН	1-methyl-2-pyrrolyl
S	propyl	ОН	2-methyl-3-furyl
S	propyl	ОН	5-methyl-2-thienyl
S	propyl	ОН	4-methyl-5-imidazolyl
S	propyl	ОН	1-methyl-3-indolyl
S	propyl	ОН	2-methoxy-1-naphthyl
S	propyl	ОН	3-methoxy-2-naphthyl
S	propyl	ОН	6-ethoxy-2-naphthyl
S	propyl	ОН	5-methoxy-3-indolyl
S	propyl	ОН	1,4-dimethoxy-2-naphthyl
S	propyl	ОН	5,6-dimethoxy-2-indolyl
S	propyl	ОН	5-methoxy-1-methyl-2-indolyl
S	propyl	OCOOMe	1-naphthyl
S	propyl	OCOOMe	2-naphthyl
S	propyl	OCOOMe	2-pyrrolyl
S	propyl	OCOOMe	3-pyrrolyl
S	propyl	OCOOMe	2-furyl
S	propyl	OCOOMe	3-furyl
		OCOOMe	2-thienyl
S	propyl	OCCOMIE	Z-tillellyi

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOMe	3-pyrazolyl
S	propyl	OCOOMe	4-pyrazolyl
S	propyl	OCOOMe	2-imidazolyl
S	propyl	OCOOMe	4-imidazolyl
S	propyl	OCOOMe	2-oxazolyl
S	propyl	OCOOMe	4-oxazolyl
S	propyl	OCOOMe	5-oxazolyl
S	propyl	OCOOMe	2-thiazolyl
S	propyl	OCOOMe	4-thiazolyl
S	propyl	OCOOMe	5-thiazolyl
S	propyl	OCOOMe	2-pyrimidinyl
S	propyl	OCOOMe	4-pyrimidinyl
S	propyl	OCOOMe	5-pyrimidinyl
S	propyl	OCOOMe	2-indolyl
S	propyl	OCOOMe	3-indolyl
S	propyl	OCOOMe	5-indolyl
S	propyl	OCOOMe	6-indolyl
S	propyl	OCOOMe	5-benzimidazolyl
S	propyl	OCOOMe	2-benzofuryl
S	propyl	OCOOMe	3-indazolyl
S	propyl	OCOOMe	2-benzoxazolyl
S	propyl	OCOOMe	4-fluoro-1-naphthyl
S	propyl	OCOOMe	5-chloro-2-thienyl
S	propyl	OCOOMe	4-methyl-1-naphthyl
S	propyl	OCOOMe	1-methyl-2-pyrrolyl
S	propyl	OCOOMe	2-methyl-3-furyl
S	propyl	OCOOMe	5-methyl-2-thienyl
S	propyl	OCOOMe	4-methyl-5-imidazolyl
S	propyl	OCOOMe	1-methyl-3-indolyl
S	propyl	OCOOMe	2-methoxy-1-naphthyl
S	propyl	OCOOMe	3-methoxy-2-naphthyl
S	propyl	OCOOMe	6-ethoxy-2-naphthyl
S	propyl	OCOOMe	5-methoxy-3-indolyl
S	propyl	OCOOMe	1,4-dimethoxy-2-naphthyl
S	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
S	propyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
S	propyl	OCOOEt	1-naphthyl
s	propyl	OCOOEt	2-naphthyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOEt	2-pyrrolyl
S	propyl	OCOOEt	3-pyrrolyl
S	propyl	OCOOEt	2-furyl
S	propyl	OCOOEt	3-furyl
S	propyl	OCOOEt	2-thienyl
S	propyl	OCOOEt	3-thienyl
S	propyl	OCOOEt	3-pyrazolyl
S	propyl	OCOOEt	4-pyrazolyl
S	propyl	OCOOEt	2-imidazolyl
S	propyl	OCOOEt	4-imidazolyl
S	propyl	OCOOEt	2-oxazolyl
S	propyl	OCOOEt	4-oxazolyl
S	propyl	OCOOEt	5-oxazolyl
S	propyl	OCOOEt	2-thiazolyl
S	propyl	OCOOEt	4-thiazolyl
S	propyl	OCOOEt	5-thiazolyl
S	propyl	OCOOEt	2-pyrimidinyl
S	propyl	OCOOEt	4-pyrimidinyl
S	propyl	OCOOEt	5-pyrimidinyl
S	propyl	OCOOEt	2-indolyl
S	propyl	OCOOEt	3-indolyl
S	propyl	OCOOEt	5-indolyl
S	propyl	OCOOEt	6-indolyl
S	propyl	OCOOEt	5-benzimidazolyl
S	propyl	OCOOEt	2-benzofuryl
S	propyl	OCOOEt	3-indazolyl
S	propyl	OCOOEt	2-benzoxazolyl
S	propyl	OCOOEt	4-fluoro-1-naphthyl
S	propyl	OCOOEt	5-chloro-2-thienyl
S	propyl	OCOOEt	4-methyl-1-naphthyl
S	propyl	OCOOEt	1-methyl-2-pyrrolyl
S	propyl	OCOOEt	2-methyl-3-furyl
S	propyl	OCOOEt	5-methyl-2-thienyl
S	propyl	OCOOEt	4-methyl-5-imidazolyl
S	propyl	OCOOEt	1-methyl-3-indolyl
S	propyl	OCOOEt	2-methoxy-1-naphthyl
S	propyl	OCOOEt	3-methoxy-2-naphthyl
S	propyl	OCOOEt	6-ethoxy-2-naphthyl

Table 1 (continued)

		Table 1 (con	inaca)
Х	R <sup>1</sup>	R <sup>2</sup>	Υ
S	propyl	OCOOEt	5-methoxy-3-indolyl
S	propyl	OCOOEt	1,4-dimethoxy-2-naphthyl
S	propyl	OCOOEt	5,6-dimethoxy-2-indolyl
S	propyl	OCOOEt	5-methoxy-1-methyl-Z-indolyl
S	n-butyl	ОН	1-naphthyl
S	n-butyl	ОН	2-naphthyl
S	n-butyl	ОН	2-pyrrolyl
S	n-butyl	ОН	3-pyrrolyl
S	n-butyl	ОН	2-furyl
S	n-butyl	ОН	3-furyl
S	n-butyl	ОН	2-thienyl
S	n-butyl	ОН	3-thienyl
S	n-butyl	ОН	3-pyrazolyl
S	n-butyl	ОН	4-pyrazolyl
S	n-butyl	ОН	2-imidazolyl
S	n-butyl	ОН	4-imidazolyl
S	n-butyl	ОН	2-oxazolyl
S	n-butyl	ОН	4-oxazolyl
S	n-butyl	ОН	5-oxazolyl
S	n-butyl	ОН	2-thiazolyl
S	n-butyl	ОН	4-thiazolyl
S	n-butyl	ОН	5-thiazolyl
S	n-butyl	ОН	2-pyrimidinyl
S	n-butyl	ОН	4-pyrimidinyl
S	n-butyl	ОН	5-pyrimidinyl
S	n-butyl	ОН	2-indolyl
S	n-butyl	ОН	3-indolyl
S	n-butyl	ОН	5-indolyl
S	n-butyl	ОН	6-indolyl
S	n-butyl	ОН	5-benzimidazolyl
S	n-butyl	ОН	2-benzofuryl
S	n-butyl	ОН	3-indazolyl
S	n-butyl	ОН	2-benzoxazolyl
S	n-butyl	ОН	4-fluoro-1-naphthyl
S	n-butyl	ОН	5-chloro-2-thienyl
S	n-butyl	ОН	4-methyl-1-naphthyl
S	n-butyl	ОН	1-methyl-2-pyrrolyl
S	n-butyl	ОН	2-methyl-3-furyl

Table 1 (continued)

X         R1         R2         Y           S         n-butyl         OH         5-methyl-2-thienyl           S         n-butyl         OH         4-methyl-3-indolyl           S         n-butyl         OH         1-methyl-3-indolyl           S         n-butyl         OH         2-methoxy-1-naphthyl           S         n-butyl         OH         3-methoxy-2-naphthyl           S         n-butyl         OH         5-methoxy-3-indolyl           S         n-butyl         OH         5-methoxy-3-indolyl           S         n-butyl         OH         5-dimethoxy-2-naphthyl           S         n-butyl         OH         5-methoxy-1-methyl-2-indolyl           S         n-butyl         OCOOMe         1-naphthyl           S         n-butyl         OCOOMe         2-naphthyl           S         n-butyl         OCOOMe         2-pyrrolyl           S         n-butyl         OCOOMe         2-pyrrolyl           S         n-butyl         OCOOMe         2-furyl           S         n-butyl         OCOOMe         3-pyrrolyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl	
S n-butyl OH 4-methyl-5-imidazolyl S n-butyl OH 1-methyl-3-indolyl S n-butyl OH 2-methoxy-1-naphthyl S n-butyl OH 3-methoxy-2-naphthyl S n-butyl OH 5-methoxy-2-naphthyl S n-butyl OH 5-methoxy-2-naphthyl S n-butyl OH 1,4-dimethoxy-2-naphthyl S n-butyl OH 5,6-dimethoxy-2-naphthyl S n-butyl OH 5-methoxy-1-methyl-2-indolyl S n-butyl OCOOMe 1-naphthyl S n-butyl OCOOMe 2-naphthyl S n-butyl OCOOMe 2-pyrrolyl S n-butyl OCOOMe 3-pyrrolyl S n-butyl OCOOMe 3-pyrrolyl S n-butyl OCOOMe 3-furyl S n-butyl OCOOMe 3-furyl S n-butyl OCOOMe 3-thienyl S n-butyl OCOOMe 3-pyrazolyl S n-butyl OCOOMe 3-pyrazolyl S n-butyl OCOOMe 4-pyrazolyl S n-butyl OCOOMe 4-pyrazolyl S n-butyl OCOOMe 4-imidazolyl S n-butyl OCOOMe 4-imidazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl	
S n-butyl OH 1-methyl-3-indolyl S n-butyl OH 2-methoxy-1-naphthy S n-butyl OH 3-methoxy-2-naphthyl S n-butyl OH 5-methoxy-3-indolyl S n-butyl OH 5-methoxy-2-naphthyl S n-butyl OH 1,4-dimethoxy-2-naphthyl S n-butyl OH 5-methoxy-2-naphthyl S n-butyl OH 5-methoxy-2-indolyl S n-butyl OH 5-methoxy-1-methyl-2-ind S n-butyl OCOOMe 1-naphthyl S n-butyl OCOOMe 2-naphthyl S n-butyl OCOOMe 2-pyrrolyl S n-butyl OCOOMe 3-pyrrolyl S n-butyl OCOOMe 3-furyl S n-butyl OCOOMe 3-furyl S n-butyl OCOOMe 3-furyl S n-butyl OCOOMe 3-thienyl S n-butyl OCOOMe 3-pyrazolyl S n-butyl OCOOMe 3-pyrazolyl S n-butyl OCOOMe 4-pyrazolyl S n-butyl OCOOMe 4-imidazolyl S n-butyl OCOOMe 4-imidazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl	
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S n-butyl OCOOMe 4-thiazolyl	
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S n-butyl OCOOMe 5-thiazolyl	
S n-butyl OCOOMe 2-pyrimidinyl	
S n-butyl OCOOMe 4-pyrimidinyl	
S n-butyl OCOOMe 5-pyrimidinyl	
S n-butyl OCOOMe 2-indolyl	
S n-butyl OCOOMe 3-indolyl	
S n-butyl OCOOMe 5-indolyl	
S n-butyl OCOOMe 6-indolyl	
S n-butyl OCOOMe 5-benzimidazolyl	
S n-butyl OCOOMe 2-benzofuryl	
S n-butyl OCOOMe 3-indazolyl	

Table 1 (continued)

		Table 1 (com	inacaj
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOMe	2-benzoxazolyl
S	n-butyl	OCOOMe	4-fluoro-1-naphthyl
S	n-butyl	OCOOMe	5-chloro-2-thienyl
S	n-butyl	OCOOMe	4-methyl-1-naphthyl
S	n-butyl	OCOOMe	1-methyl-2-pyrrolyl
S	n-butyl	OCOOMe	2-methyl-3-furyl
S	n-butyl	OCOOMe	5-methyl-2-thienyl
S	n-butyl	OCOOMe	4-methyl-5-imidazolyl
S	n-butyl	OCOOMe	1-methyl-3-indolyl
S	n-butyl	OCOOMe	2-methoxy-1-naphthyl
S	n-butyl	OCOOMe	3-methoxy-2-naphthyl
S	n-butyl	OCOOMe	6-ethoxy-2-naphthyl
S	n-butyl	OCOOMe	5-methoxy-3-indolyl
S	n-butyl	OCOOMe	1,4-dimethoxy-2-naphthyl
S	n-butyl	OCOOMe	5,6-dimethoxy-2-indolyl
S	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
S	n-butyl	OCOOEt	1-naphthyl
S	n-butyl	OCOOEt	2-naphthyl
S	n-butyl	OCOOEt	2-pyrrolyl
S	n-butyl	OCOOEt	3-pyrrolyl
S	n-butyl	OCOOEt	2-furyl
S	n-butyl	OCOOEt	3-furyl
S	n-butyl	OCOOEt	2-thienyl
S	n-butyl	OCOOEt	3-thienyl
S	n-butyl	OCOOEt	3-pyrazolyl
S	n-butyl	OCOOEt	4-pyrazolyl
S	n-butyl	OCOOEt	2-imidazolyl
S	n-butyl	OCOOEt	4-imidazolyl
S	n-butyl	OCOOEt	2-oxazolyl
S	n-butyl	OCOOEt	4-oxazolyl
S	n-butyl	OCOOEt	5-oxazolyl
S	n-butyl	OCOOEt	2-thiazolyl
S	n-butyl	OCOOEt	4-thiazolyl
S	n-butyl	OCOOEt	5-thiazolyl
S	n-butyl	OCOOEt	2-pyrimidinyl
S	n-butyl	OCOOEt	4-pyrimidinyl
S	n-butyl	OCOOEt	5-pyrimidinyl
S	n-butyl	OCOOEt	2-indolyl
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Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOEt	3-indolyl
S	n-butyl	OCOOEt	5-indolyl
S	n-butyl	OCOOEt	6-indolyl
S	n-butyl	OCOOEt	5-benzimidazolyl
S	n-butyl	OCOOEt	2-benzofuryl
S	n-butyl	OCOOEt	3-indazolyl
S	n-butyl	OCOOEt	2-benzoxazolyl
S	n-butyl	OCOOEt	4-fluoro-1-naphthyl
S	n-butyl	OCOOEt	5-chloro-2-thienyl
S	n-butyl	OCOOEt	4-methyl-1-naphthyl
S	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
S	n-butyl	OCOOEt	2-methyl-3-furyl
S	n-butyl	OCOOEt	5-methyl-2-thienyl
S	n-butyl	OCOOEt	4-methyl-5-imidazolyl
S	n-butyl	OCOOEt	1-methyl-3-indolyl
S	n-butyl	OCOOEt	2-methoxy-1-naphthyl
S	n-butyl	OCOOEt	3-methoxy-2-naphthyl
S	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
S	n-butyl .	OCOOEt	5-methoxy-3-indolyl
S	n-butyl	OCOOEt	1,4-dimethoxy-2-naphthyl
S	n-butyl	OCOOEt	5,6-dimethoxy-2-indolyl
S	n-butyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
S	n-pentyl	ОН	1-naphthyl
S	n-pentyl	ОН	2-naphthyl
S	n-pentyl	ОН	2-pyrrolyl
S	n-pentyl	ОН	3-pyrrolyl
S	n-pentyl	ОН	2-furyl
S	n-pentyl	ОН	3-furyl
S	n-pentyl	ОН	2-thienyl
S	n-pentyl	ОН	3-thienyl
S	n-pentyl	ОН	3-pyrazolyl
S	n-pentyl	ОН	4-pyrazolyl
S	n-pentyl	ОН	2-imidazolyl
S	n-pentyl	ОН	4-imidazolyl
S	n-pentyl	ОН	2-oxazolyl
S	n-pentyl	ОН	4-oxazolyl
S	n-pentyl	ОН	5-oxazolyl
S	n-pentyl	ОН	2-thiazolyl

Table 1 (continued)

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Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	ОН	4-thiazolyl
S	n-pentyl	ОН	5-thiazolyl
S	n-pentyl	ОН	2-pyrimidinyl
S	n-pentyl	ОН	4-pyrimidinyl
S	n-pentyl	ОН	5-pyrimidinyl
S	n-pentyl	ОН	2-indolyl
S	n-pentyl	ОН	3-indolyl
S	n-pentyl	ОН	5-indolyl
S	n-pentyl	ОН	6-indolyl
S	n-pentyl	ОН	5-benzimidazolyl
S	n-pentyl	ОН	2-benzofuryl
S	n-pentyl	ОН	3-indazolyl
S	n-pentyl	ОН	2-benzoxazolyl
S	n-pentyl	ОН	4-fluoro-1-naphthyl
S	n-pentyl	ОН	5-chloro-2-thienyl
S	n-pentyl	ОН	4-methyl-1-naphthyl
S	n-pentyl	ОН	1-methyl-2-pyrrolyl
S	n-pentyl	ОН	2-methyl-3-furyl
S	n-pentyl	ОН	5-methyl-2-thienyl
S	n-pentyl	ОН	4-methyl-5-imidazolyl
S	n-pentyl	ОН	1-methyl-3-indolyl
S	n-pentyl	OH	2-methoxy-1-naphthyl
S	n-pentyl	ОН	3-methoxy-2-naphthyl
S	n-pentyl	ОН	6-ethoxy-2-naphthyl
S	n-pentyl	ОН	5-methoxy-3-indolyl
S	n-pentyl	OH	1,4-dimethoxy-2-naphthyl
S	n-pentyl	ОН	5,6-dimethoxy-2-indolyl
S	n-pentyl	OH	5-methoxy-1-methyl-2-indolyl
S	n-pentyl	OCOOMe	1-naphthyl
S	n-pentyl	OCOOMe	2-naphthyl
S	n-pentyl	OCOOMe	2-pyrrolyl
S	n-pentyl	OCOOMe	3-pyrrolyl
S	n-pentyl	OCOOMe	2-furyl
S	n-pentyl	OCOOMe	3-furyl
S	n-pentyl	OCOOMe	2-thienyl
S	n-pentyl	OCOOMe	3-thienyl
S	n-pentyl	OCOOMe	3-pyrazolyl

Table 1 (continued)

		,	_ · ·
Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOMe	2-imidazolyl
S	n-pentyl	OCOOMe	4-imidazolyl
S	n-pentyl	OCOOMe	2-oxazolyl
S	n-pentyl	OCOOMe	4-oxazolyl
S	n-pentyl	OCOOMe	5-oxazolyl
S	n-pentyl	OCOOMe	2-thiazolyl
S	n-pentyl	OCOOMe	4-thiazolyl
S	n-pentyl	OCOOMe	5-thiazolyl
S	n-pentyl	OCOOMe	2-pyrimidinyl
S	n-pentyl	OCOOMe	4-pyrimidinyl
S	n-pentyl	OCOOMe	5-pyrimidinyl
S	n-pentyl	OCOOMe	2-indolyl
S	n-pentyl	OCOOMe	3-indolyl
S	n-pentyl	OCOOMe	5-indolyl
S	n-pentyl	OCOOMe	6-indolyl
S	n-pentyl	OCOOMe	5-benzimidazolyl
S	n-pentyl	OCOOMe	2-benzofuryl
S	n-pentyl	OCOOMe	3-indazolyl
S	n-pentyl	OCOOMe	2-benzoxazolyl
S	n-pentyl	OCOOMe	4-fluoro-1-naphthyl
S	n-pentyl	OCOOMe	5-chloro-2-thienyl
S	n-pentyl	OCOOMe	4-methyl-1-naphthyl
S	n-pentyl	OCOOMe	1-methyl-2-pyrrolyl
S	n-pentyl	OCOOMe	2-methyl-3-furyl
S	n-pentyl	OCOOMe	5-methyl-2-thienyl
S	n-pentyl	OCOOMe	4-methyl-5-imidazolyl
S	n-pentyl	OCOOMe	1-methyl-3-indolyl
S	n-pentyl	OCOOMe	2-methoxy-1-naphthyl
S	n-pentyl	OCOOMe	3-methoxy-2-naphthyl
S	n-pentyl	OCOOMe	6-ethoxy-2-naphthyl
S	n-pentyl	OCOOMe	5-methoxy-3-indolyl
S	n-pentyl	OCOOMe	1,4-dimethoxy-2-naphthyl
S	n-pentyl	OCOOMe	5,6-dimethoxy-2-indolyl
S	n-pentyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
S	n-pentyl	OCOOEt	1-naphthyl
S	n-pentyl	OCOOEt	2-naphthyl
S	n-pentyl	OCOOEt	2-pyrrolyl
S	n-pentyl	OCOOEt	3-pyrrolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOEt	2-furyl
S	n-pentyl	OCOOEt	3-furyl
S	n-pentyl	OCOOEt	2-thienyl
S	n-pentyl	OCOOEt	3-thienyl
S	n-pentyl	OCOOEt	3-pyrazolyl
S	n-pentyl	OCOOEt	4-pyrazolyl
S	n-pentyl	OCOOEt	2-imidazolyl
S	n-pentyl	OCOOEt	4-imidazolyl
S	n-pentyl	OCOOEt	2-oxazolyl
S	n-pentyl	OCOOEt	4-oxazolyl
S	n-pentyl	OCOOEt	5-oxazolyl
S	n-pentyl	OCOOEt	2-thiazolyl
S	n-pentyl	OCOOEt	4-thiazolyl
S	n-pentyl	OCOOEt	5-thiazolyl
S	n-pentyl	OCOOEt	2-pyrimidinyl
S	n-pentyl	OCOOEt	4-pyrimidinyl
S	n-pentyl	OCOOEt	5-pyrimidinyl
S	n-pentyl	OCOOEt	2-indolyl
S	n-pentyl	OCOOEt	3-indolyl
S	n-pentyl	OCOOEt	5-indolyl
S	n-pentyl	OCOOEt	6-indolyl
S	n-pentyl	OCOOEt	5-benzimidazolyl
S	n-pentyl	OCOOEt	2-benzofuryl
S	n-pentyl	OCOOEt	3-indazolyl
S	n-pentyl	OCOOEt	2-benzoxazolyl
S	n-pentyl	OCOOEt	4-fluoro-1-naphthyl
S	n-pentyl	OCOOEt	5-chloro-2-thienyl
S	n-pentyl	OCOOEt	4-methyl-1-naphthyl
S	n-pentyl	OCOOEt	1-methyl-2-pyrrolyl
S	n-pentyl	OCOOEt	2-methyl-3-furyl
S	n-pentyl	OCOOEt	5-methyl-2-thienyl
S	n-pentyl	OCOOEt	4-methyl-5-imidazolyl
S	n-pentyl	OCOOEt	1-methyl-3-indolyl
S	n-pentyl	OCOOEt	2-methoxy-1-naphthyl
S	n-pentyl	OCOOEt	3-methoxy-2-naphthyl
S	n-pentyl	OCOOEt	6-ethoxy-2-naphthyl
S	n-pentyl	OCOOEt	5-methoxy-3-indolyl
S	n-pentyl	OCOOEt	1,4-dimethoxy-2-naphthyl

Table 1 (continued)

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Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOEt	5,6-dimethoxy-2-indolyl
S	n-pentyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
NH	2-methoxyethyl	ОН	1-naphthyl
NH	2-methoxyethyl	ОН	2-naphthyl
NH	2-methoxyethyl	ОН	2-pyrrolyl
NH	2-methoxyethyl	ОН	3-pyrrolyl
NH	2-methoxyethyl	ОН	2-furyl
NH	2-methoxyethyl	ОН	3-furyl
NH	2-methoxyethyl	ОН	2-thienyl
NH	2-methoxyethyl	ОН	3-thienyl
NH	2-methoxyethyl	ОН	3-pyrazolyl
NH	2-methoxyethyl	ОН	4-pyrazolyl
NH	2-methoxyethyl	ОН	2-imidazolyl
NH	2-methoxyethyl	ОН	4-imidazolyl
NH	2-methoxyethyl	ОН	2-oxazolyl
NH	2-methoxyethyl	ОН	4-oxazolyl
NH	2-methoxyethyl	ОН	5-oxazolyl
NH	2-methoxyethyl	ОН	2-thiazolyl
NH	2-methoxyethyl	ОН	4-thiazolyl
NH	2-methoxyethyl	ОН	5-thiazolyl
NH	2-methoxyethyl	ОН	2-pyrimidinyl
NH	2-methoxyethyl	ОН	4-pyrimidinyl
NH	2-methoxyethyl	ОН	5-pyrimidinyl
NH	2-methoxyethyl	ОН	2-indolyl
NH	2-methoxyethyl	ОН	3-indolyl
NH	2-methoxyethyl	ОН	5-indolyl
NH	2-methoxyethyl	ОН	6-indolyl
NH	2-methoxyethyl	ОН	5-benzimidazolyl
NH	2-methoxyethyl	ОН	2-benzofuryl
NH	2-methoxyethyl	ОН	3-indazolyl
NH	2-methoxyethyl	ОН	2-benzoxazolyl
NH	2-methoxyethyl	ОН	4-fluoro-1-naphthyl
NH	2-methoxyethyl	ОН	5-chloro-2-thienyl
NH	2-methoxyethyl	ОН	4-methyl-1-naphthyl
NH	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
NH	2-methoxyethyl	ОН	2-methyl-3-furyl
NH	2-methoxyethyl	ОН	5-methyl-2-thienyl
NH	2-methoxyethyl	ОН	4-methyl-5-imidazolyl

Table 1 (continued)

			,
Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	2-methoxyethyl	ОН	1-methyl-3-indolyl
NH	2-methoxyethyl	ОН	2-methoxy-1-naphthyl
NH	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
NH	2-methoxyethyl	ОН	6-ethoxy-2-naphthyl
NH	2-methoxyethyl	ОН	5-methoxy-3-indolyl
NH	2-methoxyethyl	ОН	1,4-dimethoxy-2-naphthyl
NH	2-methoxyethyl	ОН	5,6-dimethoxy-2-indolyl
NH	2-methoxyethyl	ОН	5-methoxy-1-methyl-2-indolyl
NH	3-methoxypropyl	ОН	1-naphthyl
NH	3-methoxypropyl	ОН	2-naphthyl
NH	3-methoxypropyl	ОН	2-pyrrolyl
NH	3-methoxypropyl	ОН	3-pyrrolyl
NH	3-methoxypropyl	ОН	2-furyl
NH	3-methoxypropyl	ОН	3-furyl
NH	3-methoxypropyl	ОН	2-thienyl
NH	3-methoxypropyl	ОН	3-thienyl
NH	3-methoxypropyl	ОН	3-pyrazolyl
NH	3-methoxypropyl	ОН	4-pyrazolyl
NH	3-methoxypropyl	ОН	2-imidazolyl
NH	3-methoxypropyl	ОН	4-imidazolyl
NH	3-methoxypropyl	ОН	2-oxazolyl
NH	3-methoxypropyl	ОН	4-oxazolyl
NH	3-methoxypropyl	ОН	5-oxazolyl
NH	3-methoxypropyl	ОН	2-thiazolyl
NH	3-methoxypropyl	ОН	4-thiazolyl
NH	3-methoxypropyl	ОН	5-thiazolyl
NH	3-methoxypropyl	ОН	2-pyrimidinyl
NH	3-methoxypropyl	ОН	4-pyrimidinyl
NH	3-methoxypropyl	ОН	5-pyrimidinyl
NH	3-methoxypropyl	ОН	2-indolyl
NH	3-methoxypropyl	ОН	3-indolyl
NH	3-methoxypropyl	OH	5-indolyl
NH	3-methoxypropyl	ОН	6-indolyl
NH	3-methoxypropyl	ОН	5-benzimidazolyl
NH	3-methoxypropyl	ОН	2-benzofuryl
NH	3-methoxypropyl	ОН	3-indazolyl
NH	3-methoxypropyl	ОН	2-benzoxazolyl
NH	3-methoxypropyl	ОН	4-fluoro-1-naphthyl

Table 1 (continued)

X         R1         R2         Y           NH         3-methoxypropyl         OH         5-chloro-2-thienyl           NH         3-methoxypropyl         OH         4-methyl-1-naphthyl           NH         3-methoxypropyl         OH         1-methyl-2-pyrrolyl           NH         3-methoxypropyl         OH         2-methyl-3-furyl           NH         3-methoxypropyl         OH         4-methyl-5-imidazolyl           NH         3-methoxypropyl         OH         1-methyl-3-imidazolyl           NH         3-methoxypropyl         OH         1-methyl-3-imidazolyl           NH         3-methoxypropyl         OH         2-methoxy-1-naphthyl           NH         3-methoxypropyl         OH         6-ethoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-3-indolyl           NH         3-methoxypropyl         OH         5-methoxy-3-indolyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-deimethoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl			Table 1 (com	
NH         3-methoxypropyl         OH         4-methyl-1-naphthyl           NH         3-methoxypropyl         OH         1-methyl-2-pyrrolyl           NH         3-methoxypropyl         OH         2-methyl-3-furyl           NH         3-methoxypropyl         OH         4-methyl-5-imidazolyl           NH         3-methoxypropyl         OH         1-methyl-3-indolyl           NH         3-methoxypropyl         OH         2-methoxy-1-naphthyl           NH         3-methoxypropyl         OH         6-ethoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-dimethoxy-2-indolyl           NH         3-methoxypropyl         OH         5-dimethoxy-2-indolyl           NH         3-methoxypropyl         OH         5-methoxy-1-methyl-2-indolyl           NH         3-methoxypropyl         OH         5-methoxy-1-methyl-2-indolyl           O         2-methoxyethyl         OH         2-naphthyl           O         2-methoxyethyl         OH         2-pyrrolyl           O         2-methoxyethyl         OH         3-pyrrolyl	Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH         3-methoxypropyl         OH         1-methyl-2-pyrrolyl           NH         3-methoxypropyl         OH         2-methyl-3-furyl           NH         3-methoxypropyl         OH         5-methyl-2-thienyl           NH         3-methoxypropyl         OH         4-methyl-5-imidazolyl           NH         3-methoxypropyl         OH         1-methyl-3-indolyl           NH         3-methoxypropyl         OH         2-methoxy-1-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-2-naphthyl           NH         3-methoxypropyl         OH         5-methoxy-1-methyl-2-indolyl           NH         3-methoxypropyl         OH         5-methoxy-1-methyl-2-indolyl           O         2-methoxyethyl         OH         2-naphthyl           O         2-methoxyethyl         OH         2-naphthyl           O         2-methoxyethyl         OH         2-furyl     <	NH	3-methoxypropyl	ОН	5-chloro-2-thienyl
NH   3-methoxypropy  OH   2-methyl-3-fury    NH   3-methoxypropy  OH   4-methyl-5-imidazoly    NH   3-methoxypropy  OH   4-methyl-5-imidazoly    NH   3-methoxypropy  OH   1-methyl-3-indoly    NH   3-methoxypropy  OH   2-methoxy-1-naphthyl   NH   3-methoxypropy  OH   3-methoxy-2-naphthyl   NH   3-methoxypropy  OH   5-methoxy-2-naphthyl   NH   3-methoxypropy  OH   5-methoxy-1-methyl-2-indolyl   NH   3-methoxypropy  OH   5-methoxy-1-methyl-2-indolyl   OD   2-methoxyethyl OH   2-naphthyl   OD   2-methoxyethyl OH   2-naphthyl   OD   2-methoxyethyl OH   3-pyrrolyl   OD   2-methoxyethyl OH   3-pyrrolyl   OD   2-methoxyethyl OH   3-furyl   OD   2-methoxyethyl OH   3-furyl   OD   2-methoxyethyl OH   3-pyrazolyl   OD   3-methoxyethyl OH   3-pyrazolyl   OD	NH	3-methoxypropyl	ОН	4-methyl-1-naphthyl
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O 2-methoxyethyl OH 2-naphthyl O 2-methoxyethyl OH 3-pyrrolyl O 2-methoxyethyl OH 3-pyrrolyl O 2-methoxyethyl OH 2-furyl O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	NH	3-methoxypropyl	ОН	5-methoxy-1-methyl-2-indolyl
O 2-methoxyethyl OH 2-pyrrolyl O 2-methoxyethyl OH 3-pyrrolyl O 2-methoxyethyl OH 2-furyl O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	1-naphthyl
O 2-methoxyethyl OH 3-pyrrolyl O 2-methoxyethyl OH 2-furyl O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 3-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-naphthyl
O 2-methoxyethyl OH 2-furyl O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-pyrrolyl
O 2-methoxyethyl OH 3-furyl O 2-methoxyethyl OH 2-thienyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	3-pyrrolyl
O 2-methoxyethyl OH 2-thienyl O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-furyl
O 2-methoxyethyl OH 3-thienyl O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	3-furyl
O 2-methoxyethyl OH 3-pyrazolyl O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-thienyl
O 2-methoxyethyl OH 4-pyrazolyl O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	3-thienyl
O 2-methoxyethyl OH 2-imidazolyl O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	3-pyrazolyl
O 2-methoxyethyl OH 4-imidazolyl O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	4-pyrazolyl
O 2-methoxyethyl OH 2-oxazolyl O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 3-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-imidazolyl
O 2-methoxyethyl OH 4-oxazolyl O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	4-imidazolyl
O 2-methoxyethyl OH 5-oxazolyl O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-oxazolyl
O 2-methoxyethyl OH 2-thiazolyl O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	4-oxazolyl
O 2-methoxyethyl OH 4-thiazolyl O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	5-oxazolyl
O 2-methoxyethyl OH 5-thiazolyl O 2-methoxyethyl OH 2-pyrimidinyl O 2-methoxyethyl OH 4-pyrimidinyl O 2-methoxyethyl OH 5-pyrimidinyl O 2-methoxyethyl OH 2-indolyl O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	2-thiazolyl
O         2-methoxyethyl         OH         2-pyrimidinyl           O         2-methoxyethyl         OH         4-pyrimidinyl           O         2-methoxyethyl         OH         5-pyrimidinyl           O         2-methoxyethyl         OH         2-indolyl           O         2-methoxyethyl         OH         3-indolyl	0	2-methoxyethyl	ОН	4-thiazolyl
O         2-methoxyethyl         OH         4-pyrimidinyl           O         2-methoxyethyl         OH         5-pyrimidinyl           O         2-methoxyethyl         OH         2-indolyl           O         2-methoxyethyl         OH         3-indolyl	0	2-methoxyethyl	ОН	5-thiazolyl
O         2-methoxyethyl         OH         5-pyrimidinyl           O         2-methoxyethyl         OH         2-indolyl           O         2-methoxyethyl         OH         3-indolyl	0	2-methoxyethyl	ОН	2-pyrimidinyl
O         2-methoxyethyl         OH         2-indolyl           O         2-methoxyethyl         OH         3-indolyl	0	2-methoxyethyl	ОН	4-pyrimidinyl
O 2-methoxyethyl OH 3-indolyl	0	2-methoxyethyl	ОН	5-pyrimidinyl
	0	2-methoxyethyl	ОН	2-indolyl
O 2-methoxyethyl OH 5-indolyl	0	2-methoxyethyl	ОН	3-indolyl
-	0	2-methoxyethyl	ОН	5-indolyl

Table 1 (continued)

		,	
Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	2-methoxyethyl	ОН	6-indolyl
0	2-methoxyethyl	ОН	5-benzimidazolyl
0	2-methoxyethyl	ОН	2-benzofuryl
0	2-methoxyethyl	ОН	3-indazolyl
0	2-methoxyethyl	ОН	2-benzoxazolyl
0	2-methoxyethyl	ОН	4-fluoro-1-naphthyl
0	2-methoxyethyl	ОН	5-chloro-2-thienyl
0	2-methoxyethyl	ОН	4-methyl-1-naphthyl
0	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
0	2-methoxyethyl	ОН	2-methyl-3-furyl
0	2-methoxyethyl	ОН	5-methyl-2-thienyl
0	2-methoxyethyl	ОН	4-methyl-5-imidazolyl
0	2-methoxyethyl	ОН	1-methyl-3-indolyl
0	2-methoxyethyl	ОН	2-methoxy-1-naphthyl
0	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
0	2-methoxyethyl	ОН	6-ethoxy-2-naphthyl
0	2-methoxyethyl	ОН	5-methoxy-3-indolyl
0	2-methoxyethyl	ОН	1,4-dimethoxy-2-naphthyl
0	2-methoxyethyl	ОН	5,6-dimethoxy-2-indolyl
0	2-methoxyethyl	ОН	5-methoxy-1-methyl-2-indolyl
0	3-methoxypropyl	ОН	1-naphthyl
0	3-methoxypropyl	ОН	2-naphthyl
0	3-methoxypropyl	ОН	2-pyrrolyl
0	3-methoxypropyl	ОН	3-pyrrolyl
0	3-methoxypropyl	ОН	2-furyl
0	3-methoxypropyl	ОН	3-furyl
0	3-methoxypropyl	ОН	2-thienyl
0	3-methoxypropyl	ОН	3-thienyl
0	3-methoxypropyl	ОН	3-pyrazolyl
0	3-methoxypropyl	ОН	4-pyrazolyl
0	3-methoxypropyl	ОН	2-imidazolyl
0	3-methoxypropyl	ОН	4-imidazolyl
0	3-methoxypropyl	ОН	2-oxazolyl
0	3-methoxypropyl	ОН	4-oxazolyl
0	3-methoxypropyl	ОН	5-oxazolyl
0	3-methoxypropyl	ОН	2-thiazolyl
0	3-methoxypropyl	ОН	4-thiazolyl
0	3-methoxypropyl	ОН	5-thiazolyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Υ
0	3-methoxypropyl	ОН	2-pyrimidinyl
0	3-methoxypropyl	ОН	4-pyrimidinyl
0	3-methoxypropyl	ОН	5-pyrimidinyl
0	3-methoxypropyl	ОН	2-indolyl
0	3-methoxypropyl	ОН	3-indolyl
0	3-methoxypropyl	ОН	5-indolyl
0	3-methoxypropyl	ОН	6-indolyl
0	3-methoxypropyl	ОН	5-benzimidazolyl
0	3-methoxypropyl	ОН	2-benzofuryl
0	3-methoxypropyl	ОН	3-indazolyl
0	3-methoxypropyl	ОН	2-benzoxazolyl
0	3-methoxypropyl	ОН	4-fluoro-1-naphthyl
0	3-methoxypropyl	ОН	5-chloro-2-thienyl
0	3-methoxypropyl	ОН	4-methyl-1-naphthyl
0	3-methoxypropyl	ОН	1-methyl-2-pyrrolyl
0	3-methoxypropyl	ОН	2-methyl-3-furyl
0	3-methoxypropyl	ОН	5-methyl-2-thienyl
0	3-methoxypropyl	ОН	4-methyl-5-imidazolyl
0	3-methoxypropyl	ОН	1-methyl-3-indolyl
0	3-methoxypropyl	ОН	2-methoxy-1-naphthyl
0	3-methoxypropyl	ОН	3-methoxy-2-naphthyl
0	3-methoxypropyl	ОН	6-ethoxy-2-naphthyl
0	3-methoxypropyl	ОН	5-methoxy-3-indolyl
0	3-methoxypropyl	ОН	1,4-dimethoxy-2-naphthyl
0	3-methoxypropyl	ОН	5,6-dimethoxy-2-indolyl
0	3-methoxypropyl	ОН	5-methoxy-1-methyl-2-indolyl
S	2-methoxyethyl	ОН	1-naphthyl
S	2-methoxyethyl	ОН	2-naphthyl
S	2-methoxyethyl	ОН	2-pyrrolyl
S	2-methoxyethyl	ОН	3-pyrrolyl
S	2-methoxyethyl	ОН	2-furyl
S	2-methoxyethyl	OH	3-furyl
S	2-methoxyethyl	ОН	2-thienyl
S	2-methoxyethyl	ОН	3-thienyl
S	2-methoxyethyl	ОН	3-pyrazolyl
S	2-methoxyethyl	ОН	4-pyrazolyl
S	2-methoxyethyl	OH	2-imidazolyl
S	2-methoxyethyl	ОН	4-imidazolyl

Table 1 (continued)

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Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	2-methoxyethyl	ОН	2-oxazolyl
S	2-methoxyethyl	ОН	4-oxazolyl
S	2-methoxyethyl	ОН	5-oxazolyl
S	2-methoxyethyl	ОН	2-thiazolyl
S	2-methoxyethyl	ОН	4-thiazolyl
S	2-methoxyethyl	ОН	5-thiazolyl
S	2-methoxyethyl	ОН	2-pyrimidinyl
S	2-methoxyethyl	ОН	4-pyrimidinyl
S	2-methoxyethyl	ОН	5-pyrimidinyl
S	2-methoxyethyl	ОН	2-indolyl
S	2-methoxyethyl	ОН	3-indolyl
S	2-methoxyethyl	ОН	5-indolyl
S	2-methoxyethyl	ОН	6-indolyl
S	2-methoxyethyl	ОН	5-benzimidazolyl
S	2-methoxyethyl	ОН	2-benzofuryl
S	2-methoxyethyl	ОН	3-indazolyl
S	2-methoxyethyl	ОН	2-benzoxazolyl
S	2-methoxyethyl	ОН	4-fluoro-1-naphthyl
S	2-methoxyethyl	ОН	5-chloro-2-thienyl
S	2-methoxyethyl	ОН	4-methyl-1-naphthyl
S	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
S	2-methoxyethyl	ОН	2-methyl-3-furyl
S	2-methoxyethyl	ОН	5-methyl-2-thienyl
S	2-methoxyethyl	ОН	4-methyl-5-imidazolyl
S	2-methoxyethyl	ОН	1-methyl-3-indolyl
S	2-methoxyethyl	ОН	2-methoxy-1-naphthyl
S	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
S	2-methoxyethyl	ОН	6-ethoxy-2-naphthyl
S	2-methoxyethyl	ОН	5-methoxy-3-indolyl
S	2-methoxyethyl	ОН	1,4-dimethoxy-2-naphthyl
S	2-methoxyethyl	ОН	5,6-dimethoxy-2-indolyl
S	2-methoxyethyl	OH	5-methoxy-1-methyl-2-indolyl
S	2-hydroxyethyl	ОН	1-naphthyl
S	2-hydroxyethyl	ОН	2-naphthyl
S	2-hydroxyethyl	ОН	2-pyrrolyl
S	2-hydroxyethyl	ОН	3-pyrrolyl
S	2-hydroxyethyl	OH	2-furyl
S	2-hydroxyethyl	ОН	3-furyl

Table 1 (continued)

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	2-hydroxyethyl	ОН	2-thienyl
S	2-hydroxyethyl	ОН	3-thienyl
S	2-hydroxyethyl	ОН	3-pyrazolyl
S	2-hydroxyethyl	ОН	4-pyrazolyl
S	2-hydroxyethyl	ОН	2-imidazolyl
S	2-hydroxyethyl	ОН	4-imidazolyl
S	2-hydroxyethyl	ОН	2-oxazolyl
S	2-hydroxyethyl	ОН	4-oxazolyl
S	2-hydroxyethyl	ОН	5-oxazolyl
S	2-hydroxyethyl	ОН	2-thiazolyl
S	2-hydroxyethyl	ОН	4-thiazolyl
S	2-hydroxyethyl	ОН	5-thiazolyl
S	2-hydroxyethyl	ОН	2-pyrimidinyl
S	2-hydroxyethyl	ОН	4-pyrimidinyl
S	2-hydroxyethyl	ОН	5-pyrimidinyl
S	2-hydroxyethyl	ОН	2-indolyl
S	2-hydroxyethyl	ОН	3-indolyl
S	2-hydroxyethyl	ОН	5-indolyl
S	2-hydroxyethyl	ОН	6-indolyl
S	2-hydroxyethyl	ОН	5-benzimidazolyl
S	2-hydroxyethyl	ОН	2-benzofuryl
S	2-hydroxyethyl	ОН	3-indazolyl
S	2-hydroxyethyl	ОН	2-benzoxazolyl
S	2-hydroxyethyl	ОН	4-fluoro-1-naphthyl
S	2-hydroxyethyl	ОН	5-chloro-2-thienyl
S	2-hydroxyethyl	ОН	4-methyl-1-naphthyl
S	2-hydroxyethyl	ОН	1-methyl-2-pyrrolyl
S	2-hydroxyethyl	ОН	2-methyl-3-furyl
S	2-hydroxyethyl	ОН	5-methyl-2-thienyl
S	2-hydroxyethyl	ОН	4-methyl-5-imidazolyl
S	2-hydroxyethyl	OH	1-methyl-3-indolyl
S	2-hydroxyethyl	OH	2-methoxy-1-naphthyl
S	2-hydroxyethyl	ОН	3-methoxy-2-naphthyl
S	2-hydroxyethyl	ОН	6-ethoxy-2-naphthyl
S	2-hydroxyethyl	ОН	5-methoxy-3-indolyl
S	2-hydroxyethyl	ОН	1,4-dimethoxy-2-naphthyl
S	2-hydroxyethyl	OH	5,6-dimethoxy-2-indolyl
S	2-hydroxyethyl	ОН	5-methoxy-1-methyl-2-indolyl

[0032] A compound in which R<sup>2</sup> represents acyloxy or alkoxycarbonyloxy according to the present invention is equivalent to ester of a compound in which R<sup>2</sup> represents hydroxyl. The compound is a prodrug that is aimed at improving solubility, absorbency, and biostability of a compound in which R<sup>2</sup> represents hydroxyl. That is, the above ester is metabolized in a living organism to an active form compound in which R<sup>2</sup> is hydroxyl. A compound represented by general formula (I) and a tautomer thereof are chemically equivalent. The adenine derivative according to the present invention includes the tautomer. For example, when R<sup>2</sup> represent hydroxyl, a compound represented by general formula (I) is a hydroxy derivative represented by general formula (II):

 $R^1$  NH<sub>2</sub> OH (II)

wherein R<sup>1</sup>, X, and Y are as defined in general formula (I). An example of a tautomer of this derivative is an oxo derivative represented by general formula (III):

wherein R', X, and Y are as defined in general formula (I).

[0033] An embodiment of a process for producing these adenine derivatives is hereafter described in detail.

(1) When R2 is OH

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[0034] A compound (IV) is allowed to react with Y-CH<sub>2</sub>-Hal (wherein Y is as defined in general formula (II) and Hal represents a halogen atom) in the presence of a base, thereby synthesizing a 9-substitution product (V). Examples of the aforementioned bases that can be used include alkali metal salt or alkaline earth metal salt of carbonic acid such as potassium carbonate, metal hydroxides such as sodium hydroxide and potassium hydroxide, metal hydrides such as sodium hydride, and alkoxides such as potassum t-butoxide. Examples of the aforementioned solvents that can be used include aprotic solvents such as dimethylformamide, dimethyl sulfoxide, tetrahydrofuran, and 1,4-dioxane. Reaction temperature can be between room temperature and reflux temperature of the solvent.

[0035] Subsequently, when X represents NH, a compound (V) is allowed to react with a corresponding R¹-NH<sub>2</sub> (wherein R¹ is as defined above) in the presence or absence of a base, thereby synthesizing a 2-substitution product (VI). Examples of bases that can be used include tertiary amines such as triethylamine, diisopropylethylamine, and 4-dimethylaminopyridine. Examples of solvents that can be used include aprotic solvents, such as tetrahydrofuran, 1,4-dioxane, and diglyme, and alcoholic solvents such as propanol or butanol. Alternatively, reaction may be carried out in the absence of a solvent. Reaction temperature can be between 50°C and reflux temperature of the solvent. [0036] When X represents an oxygen atom or sulfur atom, a compound (V) is allowed to react with a corresponding R¹-OH or R¹-SH in the presence of a base, thereby synthesizing a 2-substitution product (VI). Examples of bases that

can be used include alkali metals such as sodium or potassium and alkali metal hydrides such as sodium hydride. Examples of solvents that can be used include aprotic solvents such as dimethylformamide, dimethyl sulfoxide, tetrahydrofuran, 1,4-dioxane, and diglyme. Alternatively, reaction may be carried out in the absence of a solvent. Reaction temperature can be between 50°C and reflux temperature of the solvent.

[0037] In a process for producing a compound (VI) from a compound (IV), a compound (VI) can be obtained by first synthesizing a 2-substitution product (V'), followed by the reaction between the 2-substitution product (V') and Y-CH<sub>2</sub>-Hal (wherein Y is as defined in general formula (II) and Hal represents a halogen atom).

[0038] A compound (VII) can be synthesized by reacting a compound (VI) with bromine. Examples of solvents that can be used include, halogenated solvents such as carbon tetrachloride, dichloromethane or chloroform, and acetic acid. Reaction temperature can be between 0°C and reflux temperature of the solvent. Alternatively, a reaction assistant such as sodium acetate may be additionally used in the reaction.

[0039] A compound (IX) can be synthesized through hydrolysis of a compound (VII) under acidic conditions. Examples of acids that can be used include hydrochloric acid and hydrobromic acid. Reaction temperature can be between 50°C and reflux temperature of the solvent. Alternatively, a compound (VII) is allowed to react with sodium methoxide to prepare a compound (VIII), and the resultant is treated with acid for demethylation. Thus, a compound (IX) can be obtained.

[0040] A compound (X) can be synthesized by reacting a compound (VII) with sodium hydrosulfide (sodium hydrogensulfide). Examples of solvents that can be used include alcoholic solvents such as ethanol, propanol, and butanol.

Reaction temperature can be between 50°C and reflux temperature of the solvent.

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**[0041]** A compound (XI) can be obtained by allowing the compound (IX) to react with acyl chloride or chloroformate ester corresponding to  $R^2$  in the presence of a base. Examples of bases that can be used include tertiary amines such as triethylamine, diisopropylethylamine, or 4-dimethylaminopyridine. Examples of solvents that can be used include aprotic solvents such as tetrahydrofuran, 1,4-dioxane, and dichloromethane. Reaction temperature can be between  $0^{\circ}$ C and reflux temperature of the solvent (In the formula,  $R^4$  represents  $C_{1-7}$  alkyl or  $C_{1-7}$  alkoxy).

[0042] The thus obtained adenine derivative according to the present invention can be used as a pharmaceutically acceptable salt such as sodium salt, potassium salt, calcium salt, hydrochloride, hydrobromate, sulfate, nitrate, acetate, methanesulfonate, toluenesulfonate, citrate, fumarate, or maleate.

[0043] The adenine derivative according to the present invention is useful as a therapeutic agent for viral diseases such as hepatitis B, hepatitis C, and AIDS, cancerous diseases, and diseases resulting from type 2 helper T cells. It can be used in various dosage forms, for example, oral preparations such as a tablet, capsule, or powder. In addition, it can be parenteral injection or external preparation. The pharmaceutical preparation according to the present invention can be any substance selected from the group consisting of a compound represented by general formula (I), a tautomer thereof, and a pharmaceutically acceptable salt thereof. A hydrate or solvate thereof may also be used. Alternatively, two or more of these substances may be used in combinations. A substance itself that is selected from the aforementioned group may be administered as a pharmaceutical preparation according to the present invention. In general, however, it is preferably administered in a form of a pharmaceutical composition comprising, as an active ingredient, the aforementioned substance and a pharmaceutically acceptable additive for pharmaceutical preparations.

[0044] A pharmaceutical composition for organisms can be easily produced in accordance with a process that is common in the field of pharmaceutical preparations, wherein the aforementioned substance as an active ingredient is mixed with at least one pharmaceutically acceptable additive for pharmaceutical preparations. A route for administering the pharmaceutical preparation according to the present invention is not particularly limited. Preferably, the most effective route is suitably selected for therapy and/or prevention. Examples of pharmaceutical compositions that are suitable for oral administration include capsules, powders, tablets, granules, fine grains, syrups, liquids, and suspensions. Examples of pharmaceutical compositions that are suitable for parenteral administration include inhalants, sprays, intrarectal preparations, parenteral injections, drops, pastes, creams, percutaneous absorbents, transmucosal absorbents, eye drops, nasal drops, ear drops, tapes, and medical applications. It should be noted that the forms of the pharmaceutical preparation according to the present invention are not limited thereto.

[0045] Among the pharmaceutical compositions suitable for oral administration, for example, liquid preparations such as emulsions and syrups can be produced using additives for pharmaceutical preparations. Examples thereof include: water; saccharine such as sucrose, sorbit, and fructose; glycols such as polyethylene glycol and propylene glycol; oils such as sesame oil, olive oil, and soybean oil; antiseptics such as p-hydroxybenzoate; and flavors such as strawberry flavor and peppermint. Solid preparations such as capsules, tablets, powders, and granules can be produced using:

for example, excipients such as lactose, glucose, sucrose, and mannite; disintegrators such as starch and sodium alginate; lubricants such as magnesium stearate and talc; binders such as polyvinyl alcohol, hydroxypropylcellulose, and gelatin; surfactants such as fatty acid ester; and plasticizers such as glycerin.

[0046] Among pharmaceutical compositions suitable for parenteral administration, liquid preparations such as parenteral injections, drops, and eye drops can be preferably produced as sterilized isotonic liquid preparations. For example, parenteral injections can be produced using an aqueous medium comprising a mixture of a salt solution, a glucose solution, or salt water and a glucose solution. Intrarectal preparations can be generally produced in a form of suppository using, for example, a carrier such as cacao butter, hydrogenated fat, or hydrogenated carboxylic acid. Sprays can be prepared using nonirritating carriers that allow the aforementioned substances as active ingredients to be dispersed as fine particles to facilitate absorption. Examples of such carriers include lactose and glycerin. A form of aerosol or dry powder preparation can be selected. Also, at least one additive for pharmaceutical preparations selected from diluent, flavor, antiseptics, excipient, disintegrator, lubricant, binder, surfactant, plasticizer, and the like as exemplified in the production of oral preparation can be suitably used to produce a pharmaceutical composition for parenteral administration. It should be noted that additives for pharmaceutical preparations that are used to produce the pharmaceutical preparation according to the present invention are not limited to the aforementioned substances. Any substance can be used as long as it is available to persons skilled in the art.

**[0047]** The dose of the adenine derivative according to the present invention is suitably determined depending on, for example, sex, age, body weight, type of disease, or symptom of a patient. The dose is generally in the range of 0.001 to 100 mg/kg per day, and preferably in the range of 0.01 to 10 mg/kg. Administration can be made in single or several separate doses.

[0048] This description includes part or all of the content as disclosed in the description of Japanese Patent Application No. 2001-118232, which is a priority document of the present application.

### Brief Description of Drawings

### [0049]

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Fig. 1 is a diagram showing the result of evaluation for the medicinal effect of the compound according to the present invention in a rat model of eosinophil leukocytic infiltration.

Fig. 2 is a diagram showing the result of evaluation for the medicinal effect of the compound according to the present invention in a mouse model of active cutaneous anaphylaxis.

Fig. 3 is a diagram showing the result of evaluation for the antitumor effect described in Example 65, wherein the tumor volume of the compound of Example 27 and that of mouse interferon  $\alpha$  were compared with that of the vehicle (a control group).

Fig. 4 is a diagram showing the result of evaluation for the antitumor effect described in Example 66 (the effect of inhibiting metastasis), wherein the wet weight of each lymph node was compared among the group to which the vehicle was administered (the control group), the group to which mouse interferon  $\alpha$  was administered, and the group to which the compound of Example 27 was administered.

# 40 Best Modes for Carrying out the Invention

[0050] The present invention is hereafter described in detail with reference to the examples, although the technical scope of the present invention is not limited thereto.

## 45 Reference Example 1: 2-Butoxyadenine

[0051] Sodium (13.6 g, 0.59 mol) was added to butanol (480 ml), the temperature of the mixture was raised to 90°C to completely dissolve sodium therein. Subsequently, 2-chloroadenine (4.0 g, 23.6 mmol) was added, and the resultant was heated under reflux for 9 hours. After the reaction solution was cooled to 4°C, water (400 ml) was added thereto, and the resultant was vigorously stirred for 30 minutes. The separated layer of butanol was concentrated under reduced pressure, water (400 ml) was added to the residue, and concentrated hydrochloric acid was added dropwide under ice cooling to neutralize the product. The precipitated solid was collected by filtration, the resulting solid was added to ethanol (70 ml), and the resultant was heated under reflux for 30 minutes. The product was cooled to room temperature, and the precipitated solid was then collected by filtration. Thus, 3.72 g of the title compound was obtained (yield: 76%).

### Reference Example 2: 8-Bromo-2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine

[0052] Potassium carbonate (2.85 g, 20.6 mmol) and 2-chloro-5-chloromethylpyridine (3.33 g, 20.6 mmol) were add-

ed to the DMF solution (125 ml) of 2-butoxyadenine (2.60 g, 12.5 mmol) obtained in Reference Example 1. The resultant was stirred while heating at 80°C for 2.5 hours. The reaction solution was concentrated under reduced pressure, water (100 ml) was added thereto, and the resultant was neutralized with 1N hydrochloric acid. The precipitated solid was collected by filtration. The resulting solid was dissolved in methylene chloride (100 ml), hexane (150 ml) was added under ice cooling, and the precipitated crystal was collected by filtration. Thus, 2-butoxy-9-(6-chloro-3-pyridylmethyl) adenine was obtained (yield: 3.12 g). Bromine (1.92 ml, 37.5 mmol) was added to an acetic acid suspension (186 ml) comprising sodium acetate (3.05 g, 37.2 mmol) and 2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine (3.1 g, 9.31 mmol) at room temperature, and the resultant was allowed to react for 4 hours. The reaction solution was removed by distillation under reduced pressure, water (200 ml) was added to the residue, and the resultant was neutralized with 5N sodium hydroxide under ice cooling. The precipitated crystal was collected by filtration, and crude crystal was recrystalized with the aid of methanol. The resultant was dried under reduced pressure at 40°C for 15 hours. Thus, 2.38 g of the title compound was obtained as a white powdery crystal (yield: 62%).

### Reference Example 3: 2-Butoxy-9-(6-chloro-3-pyridylmethyl)-8-methoxyadenine

[0053] Sodium (614 mg, 26.7 mmol) was added and completely dissolved in methanol (110 ml). 8-Bromo-2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine (2.2 g, 5.34 mmol) obtained in Reference Example 2 was added to the resulting solution, and the mixture was heated under reflux for 3.5 hours. The reaction solution was concentrated under reduced pressure, water (100 ml) was added to the residue, and the resultant was neutralized with concentrated hydrochloric acid under ice cooling. The precipitated solid was collected by filtration and washed with water (20 ml). This solid was recrystalized with the aid of ethyl acetate (30 ml) to obtain 1.26 g of the title compound as a white powdery crystal (yield: 65.0%).

### Reference Example 4: 2-Butoxy-9-(6-methoxy-3-pyridylmethyl)adenine

[0054] Sodium (415 mg, 18.0 mmol) was added and completely dissolved in methanol (18 ml). Thereafter, 2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine (300 mg, 0.90 mmol) was added thereto, and the resultant was heated under reflux for 24 hours. The reaction solution was concentrated under reduced pressure, water (30 ml) was added to the residue, and the resultant was neutralized with concentrated hydrochloric acid under ice cooling. The precipitated solid was collected by filtration, and crude crystal was purified by silica gel column chromatography (methylene chloride:methanol = 50:1) to obtain 148 mg of the title compound (yield: 50%).

### Reference Example 5: 2-Butylaminoadenine

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[0055] 2-Chloroadenine (6.0 g, 35.4 mmol) and butylamine (30 ml) were placed in an autoclave (200 ml), and the content of the autoclave was allowed to react at 130°C for 150 hours. The reaction solution was concentrated under reduced pressure, and water was poured into the residue to precipitate a solid. The precipitated solid was sequentially washed with methylene chloride and methanol. Thus, 2.08 g of the title compound was obtained as a yellowish orange powdery solid (yield: 30%).

### Example 1: 2-Butoxy-9-(6-chloro-3-pyridylmethyl)-8-hydroxyadenine

**[0056]** The compound (1.26 g, 3.47 mmol) obtained in Reference Example 3 was added to concentrated hydrochloric acid (70 ml), and the mixture was allowed to react at room temperature for 2 hours. The reaction solution was concentrated under reduced pressure, water (130 ml) was added to the residue, and the resultant was neutralized with an aqueous solution of 5N sodium hydroxide under ice cooling. The precipitated crystal was collected by filtration and then dried. Thus, 1.20 g of the title compound was obtained as a white powdery crystal (yield: 99%).  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.14 (1H, brs), 8.40 (1H, d, J = 2.4 Hz), 7.76 (1H, dd, J = 2.4, 8.4 Hz), 7.49 (1H, d, J = 8.4 Hz), 6.55 (2H, brs), 4.91 (2H, s), 4.14 (2H, t, J = 6.5 Hz), 1.67-1.57 (2H, m), 1.44-1.30 (2H, m), 0.90 (3H, t, J = 7.3 Hz).

### Example 2: 2-Butoxy-8-hydroxy-9-(6-methoxy-3-pyridylmethyl)adenine

[0057] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO- $d_6$ )  $\delta$  10.09 (1H, brs), 8.16 (1H, d, J = 2.4 Hz), 7.65 (1H, dd, J = 2.4, 8.4 Hz), 6.78 (1H, d, J = 8.4 Hz), 6.49 (2H, brs), 4.80 (2H, s), 4.15 (2H, t, J = 6.6 Hz), 3.81 (3H, s), 1.66-1.58 (2H, m), 1.42-1.34 (2H, m), 0.91 (3H, t, J = 7.3 Hz).

### Example 3: 2-Butoxy-9-(6-ethoxy-3-pyridylmethyl)-8-hydroxyadenine

[0058] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.06 (1H, brs), 8.14 (1H, d, J = 2.4 Hz), 7.64 (1H, dd, J = 2.4, 8.6 Hz), 6.75 (1H, d, J = 8.6 Hz), 6.48 (2H, brs), 4.80 (2H, s), 4.26 (2H, q, J = 7.2 Hz), 4.15 (2H, t, J = 6.6 Hz), 1.68-1.58 (2H, m), 1.42-1.34 (2H, m), 1.28 (3H, t, J = 7.2 Hz), 0.91 (3H, t, J = 7.3 Hz).

### Example 4: 2-Butoxy-9-(6-n-butoxy-3-pyridylmethyl)-8-hydroxyadenine

[0059] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.25 (1H, brs), 8.13 (1H, d, J = 1.9 Hz), 7.63 (1H, dd, J = 1.9, 8.4 Hz), 6.75 (1H, d, J = 8.4 Hz), 6.53 (2H, brs), 4.79 (2H, s), 4.23-4.12 (4H, m), 1.68-1.60 (4H, m), 1.42-1.34 (4H, m), 0.94-0.88 (6H, m).

# Example 5: 2-Butoxy-9-(2-chloro-3-pyridylmethyl)-8-hydroxyadenine

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[0060] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material.  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.15 (1H, brs), 8.36-8.33 (1H, m), 7.52-7.50 (1H, m), 7.41-7.36 (1H, m), 6.53 (2H, brs), 4.94 (2H, s), 4.07 (2H, t, J = 6.6 Hz), 1.62-1.52 (2H, m), 1.37-1.23 (2H, m), 0.87 (3H, t, J = 7.3 Hz).

# Example 6: 2-Butoxy-8-hydroxy-9-(2-methoxy-3-pyridylmethyl)adenine

[0061] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material.  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.06 (1H, brs), 8.08-8.06 (1H, m), 7.21-7.19 (1H, m), 6.93-6.88 (1H, m), 6.47 (2H, brs), 4.80 (2H, s), 4.08 (2H, t, J = 6.5 Hz), 3.92 (3H, s), 1.60-1.53 (2H, m), 1.38-1.29 (2H, m), 0.87 (3H, t, J = 7.3 Hz).

### Example 7: 2-Butoxy-9-(6-chloro-5-methoxy-3-pyridylmethyl)-8-hydroxyadenine

[0062] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material.  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.06 (1H, brs), 8.12 (1H, d, J = 1.9 Hz), 7.85 (1H, d, J = 1.9 Hz), 6.49 (2H, brs), 4.83 (2H, s), 4.16 (2H, t, J = 6.6 Hz), 3.91 (3H, s), 1.66-1.61 (2H, m), 1.42-1.34 (2H, m), 0.91 (3H, t, J = 7.3 Hz).

### Example 8: 2-Butoxy-8-hydroxy-9-(3-pyridylmethyl)adenine

[0063] Potassium carbonate (1.1 g, 8 mmol) and 3-chloromethylpyridine hydrochloride (660 mg, 5 mmol) were added to a DMF solution (30 ml) comprising 2-chloroadenine (520 mg, 3 mmol), and the resultant was stirred while heating at 80°C for 3 hours. The reaction solution was concentrated under reduced pressure, water was added thereto, and the precipitated solid was collected by filtration. Thus, 2-chloro-9-(3-pyridylmethyl)adenine was obtained (yield: 759 mg). Sodium (750 mg, 30 mmol) was added to butanol (50 ml), and the temperature of the mixture was raised to 90°C to completely dissolve sodium therein. Subsequently, 2-chloro-9-(3-pyridylmethyl)adenine (430 mg, 1.5 mmol) was added thereto, and the resultant was heated under reflux for 2 hours. The solvent was concentrated under reduced pressure, water was added to the residue, and concentrated hydrochloric acid was added dropwise under ice cooling to neutralize the solution. Liquid separation was carried out with the addition of methylene chloride, and the organic layer was concentrated under reduced pressure. Acetic acid (30 ml) was added to the residue to dissolve it, bromine (660 mg, 5.5 mmol) was added thereto, and the resultant was allowed to react at room temperature all day and night. The reaction solution was removed by distillation under reduced pressure, and the residue was purified by silica gel column chromatography (methylene chloride:methanol = 10:1). Thus, 310 mg of 8-bromo-2-butoxy-9-(3-pyridylmethyl) adenine was obtained. Subsequently, the title compound was obtained in the same manner as in Reference Example 3 and Example 1.

 $^{1}\text{H NMR (DMSO-d}_{6}) \ \delta \ 10.22 \ (1\text{H, brs}), \ 8.56 \ (1\text{H, d}, \ J=1.9 \ \text{Hz}), \ 8.49-8.47 \ (1\text{H, m}), \ 7.71-7.67 \ (1\text{H, m}), \ 7.38-7.33 \ (1\text{H, m}), \ 6.54 \ (2\text{H, brs}), \ 4.90 \ (2\text{H, s}), \ 4.14 \ (2\text{H, t}, \ J=6.6 \ \text{Hz}), \ 1.65-1.57 \ (2\text{H, m}), \ 1.41-1.33 \ (2\text{H, m}), \ 0.90 \ (3\text{H, t}, \ J=7.3 \ \text{Hz}).$ 

# Example 9: 2-Butoxy-8-hydroxy-9-(4-pyridylmethyl)adenine

[0064] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.20 (1H, brs), 8.70-8.68 (2H, m), 7.29-7.27 (2H, m), 6.48 (2H, brs), 4.92 (2H, s), 4.16 (2H, t, J = 6.6 Hz), 1.63-1.55 (2H, m), 1.40-1.32 (2H, m), 0.89 (3H, t, J = 7.3 Hz).

### Example 10: 2-Butoxy-9-(pyrazin-2-ylmethyl)-8-methoxyadenine

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[0065] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material.  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.02 (1H, brs), 8.66 (1H, s), 8.56-8.53 (2H, m), 6.48 (2H, brs), 5.05 (2H, s), 4.06 (2H, t, J = 6.6 Hz), 1.59-1.51 (2H, m), 1.37-1.29 (2H, m), 0.87 (3H, t, J = 7.3 Hz).

### Example 11: 2-Butoxy-9-(5,6-dichloro-3-pyridylmethyl)-8-hydroxyadenine

[0066] Concentrated hydrochloric acid (4 ml) was added to a butanol suspension (4 ml) comprising 2-n-butoxy-8-bromo-9-(5,6-dichloro-3-pyridylmethyl)-8-hydroxyadenine (150 mg, 0.34 mmol) obtained in the same manner as in Reference Example 2, and the resultant was allowed to react at 70°C for 9 hours. The reaction solution was concentrated under reduced pressure, water (30 ml) was added to the residue under ice cooling, and the solution was neutralized with an aqueous solution of 1N sodium hydroxide. The precipitated solid was collected by filtration, crude crystal was purified by silica gel column chromatography (methylene chloride:methanol = 25:1), and 45 mg of the title compound was obtained as a white powdery crystal (yield: 35%).

 $^{1}H$  NMR (DMSO-d<sub>6</sub>)  $\delta$  10.16 (1H, brs), 8.36 (1H, d, J = 1.9 Hz), 8.06 (1H, d, J = 1.9 Hz), 6.52 (2H, brs), 4.93 (2H, s), 4.13 (2H, t, J = 6.6 Hz), 1.64-1.58 (2H, m), 1.40-1.32 (2H, m), 0.90 (3H, t, J = 7.3 Hz).

### Example 12: 2-Butoxy-9-(2,6-dichloro-3-pyridylmethyl)-8-hydroxyadenine

[0067] The title compound was obtained in the same manner as in Example 11 using a corresponding starting material.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 10.12 (1H, brs), 7.66 (1H, d, J = 8.4 Hz), 7.52 (1H, d, J = 8.4 Hz), 6.52 (2H, brs), 4.92 (2H, s), 4.08 (2H, t, J = 6.6 Hz), 1.60-1.52 (2H, m), 1.37-1.29 (2H, m), 0.88 (3H, t, J = 7.4 Hz).

# Example 13: 2-Butoxy-9-(6-piperidino-3-pyridylmethyl)-8-hydroxyadenine

[0068] The compound (100 mg, 0.29 mmol) obtained in Example 1 was added to piperidine (3 ml), and the resultant was allowed to react at 90°C for 30 hours. The reaction solution was concentrated under reduced pressure, and methylene chloride (50 ml) was added to the residue to precipitate a solid. The precipitated solid was collected by filtration and washed with water. Thus, 56 mg of the title compound was obtained as a white powdery solid (yield: 49%).

1 H NMR (DMSO-d<sub>6</sub>) δ 9.79 (1H, brs), 8.09 (1H, d, J = 2.4 Hz), 7.47 (1H, dd, J = 2.4, 8.6 Hz), 6.75 (1H, d, J = 8.6 Hz), 6.44 (2H, brs), 4.70 (2H, s), 4.17 (2H, t, J = 6.5 Hz), 3.48-3.44 (4H, m), 1.67-1.35 (10H, m), 0.92 (3H, t, J = 7.3 Hz).

# Example 14: 2-Butoxy-9-(6-(1-pyrrolidinyl)-3-pyridylmethyl)-8-hydroxyadenine

[0069] The title compound was obtained in the same manner as in Example 13 using the compound obtained in Example 1 and pyrrolidine.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.03 (1H, brs), 8.07 (1H, d, J = 2.4 Hz), 7.46 (1H, dd, J = 2.4, 8.6 Hz), 6.45 (2H, brs), 6.37 (1H, d, J = 8.6 Hz), 4.69 (2H, s), 4.16 (2H, t, J = 6.6 Hz), 3.33-3.29 (4H, m), 1.93-1.88 (4H, m), 1.67-1.59 (2H, m), 1.43-1.35 (2H, m), 0.92 (3H, t, J = 7.3 Hz).

### Example 15: 2-Butoxy-9-(6-morpholino-3-pyridylmethyl)-8-hydroxyadenine

[0070] The title compound was obtained in the same manner as in Example 13 using the compound obtained in Example 1 and morpholine.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 10.01 (1H, brs), 8.14 (1H, d, J = 2.4 Hz), 7.53 (1H, dd, J = 2.4, 8.6 Hz), 6.78 (1H, d, J = 8.6 Hz), 6.45 (2H, brs), 4.73 (2H, s), 4.16 (2H, t, J = 6.6 Hz), 3.66 (4H, t, J = 4.9 Hz), 3.38 (4H, t, J = 4.9 Hz), 1.67-1.61 (2H, m), 1.43-1.35 (2H, m), 0.92 (3H, t, J = 7.3 Hz).

### Example 16: 2-Butoxy-9-(6-dimethylamino-3-pyridylmethyl)-8-hydroxyadenine

[0071] The title compound was obtained in the same manner as in Example 13 using the compound obtained in Example 1 and an aqueous solution of 40% dimethylamine.

 $^{55}$  1H NMR (DMSO-d<sub>6</sub>) δ 10.12 (1H, brs), 8.09 (1H, d, J = 2.4 Hz), 7.48 (1H, dd, J = 2.4, 8.9 Hz), 6.57 (1H, d, J = 8.9 Hz), 6.49 (2H, brs), 4.70 (2H, s), 4.16 (2H, t, J = 6.6 Hz), 2.97 (6H, s), 1.70-1.46 (2H, m), 1.43-1.33 (2H, m), 0.92 (3H, t, J = 7.3 Hz).

### Example 17: 2-Butylamino-9-(6-chloro-3-pyridylmethyl)-8-hydroxyadenine

[0072] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 10.10 (1H, brs), 8.56 (1H, d, J = 1.9 Hz), 8.49-8.47 (1H, m), 7.71-7.67 (1H, m), 7.38-7.33 (1H, m), 6.50 (2H, brs), 4.90 (2H, s), 4.14 (2H, t, J = 6.6 Hz), 1.67-1.57 (2H, m), 1.41-1.30 (2H, m), 0.90 (3H, t, J = 7.3 Hz).

### Example 18: 2-Butylamino-9-(2-chloro-3-pyridylmethyl)-8-hydroxyadenine

[0073] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 9.76 (1H, brs), 8.35-8.32 (1H, m), 7.47-7.36 (2H, m), 6.23 (1H, brt, J = 5.7 Hz), 6.07 (2H, s), 4.88 (2H, s), 3.13-3.05 (2H, m), 1.43-1.27 (2H, m), 1.24-1.16 (2H, m), 0.82 (3H, t, J = 7.3 Hz).

# Example 19: 2-Butylamino-8-hydroxy-9-(6-methoxy-3-pyridylmethyl)adenine

[0074] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO- $d_6$ )  $\delta$  10.07 (1H, brs), 8.17 (1H, d, J = 2.4 Hz), 7.67 (1H, dd, J = 2.4, 8.4 Hz), 6.82-6.76 (2H, m), 6.60 (2H, brs), 4.78 (2H, s), 3.81 (3H, s), 3.25-3.17 (2H, m), 1.54-1.43 (2H, m), 1.38-1.25 (2H, m), 0.89 (3H, t, J = 7.3 Hz).

## Example 20: 2-Butylamino-8-hydroxy-9-(2-pyridylmethyl)adenine

[0075] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 10.88 (1H, s), 8.56-8.54 (1H, m), 8.05-7.89 (3H, m), 7.46-7.41 (2H, m), 5.05 (3H, s), 3.19-3.14 (2H, m), 1.44-1.21 (4H, m), 0.81 (3H, t, J = 7.3 Hz).

## Example 21: 2-Butylamino-8-hydroxy-9-(3-pyridylmethyl)adenine

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[0076] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO- $d_6$ ) δ 9.78 (1H, brs), 8.55 (1H, d, J = 2.4 Hz), 8.47 (1H, dd, J = 1.9, 4.9 Hz), 7.68 (1H, d, J = 7.8 Hz), 7.34 (1H, dd, J = 4.9, 7.8 Hz), 6.21 (1H, brt, J = 5.5 Hz), 6.05 (2H, brs), 4.84 (2H, s), 3.20-3.12 (2H, m), 1.47-1.39 (2H, m), 1.32-1.24 (2H, m), 0.87 (3H, t, J = 7.3 Hz).

### Example 22: 2-Butylamino-8-hydroxy-9-(4-pyridylmethyl)adenine

[0077] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 11.05 (1H, brs), 8.76 (2H, d, J = 8.7 Hz), 8.09-7.88 (3H, m), 7.73 (2H, d, J = 8.7 Hz), 5.09 (2H, s), 3.22-3.17 (2H, m), 1.47-1.32 (2H, m), 1.29-1.18 (2H, m), 0.82 (3H, t, J = 7.4 Hz).

### Example 23: 2-Butylamino-9-(2,6-dichloro-3-pyridylmethyl)-8-hydroxyadenine

[0078] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 9.82 (1H, brs), 7.61-7.51 (2H, m), 6.23 (1H, brt, J = 5.4 Hz), 6.08 (2H, s), 4.87 (2H, s), 3.12-3.05 (2H, m), 1.40-1.19 (4H, m), 0.82 (3H, t, J = 7.3 Hz).

### Example 24: 2-Butylamino-9-(6-dimethylamino-3-pyridylmethyl)-8-hydroxyadenine

[0079] The title compound was obtained in the same manner as in Example 13 using the compound obtained in Example 17 and an aqueous solution of 40% dimethylamine.

 $^{55}$  <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 9.61 (1H, brs), 8.10 (1H, d, J = 2.2 Hz), 7.49 (1H, dd, J = 2.2, 8.6 Hz), 6.56 (1H, d, J = 8.6 Hz), 6.18 (1H, brt, J = 5.7 Hz), 5.97 (2H, brs), 4.65 (2H, s), 3.22-3.15 (2H, m), 2.97 (6H, s), 1.53-1.42 (2H, m), 1.38-1.24 (2H, m), 0.89 (3H, t, J = 7.3 Hz).

### Example 25: 2-Butoxy-8-hydroxy-9-(6-methyl-3-pyridylmethyl)adenine

[0080] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  9.95 (1H, s), 8.42 (1H, d, J = 2.2 Hz), 7.58 (1H, dd, J = 2.2, 8.1 Hz), 7.20 (1H, d, J = 8.1 Hz), 6.46 (2H, brs), 4.84 (2H, s), 4.14 (2H, t, J = 6.6 Hz), 2.41 (3H, s), 1.62 (2H, m), 1.37 (2H, m), 0.90 (3H, t, J = 7.3 Hz).

# Example 26: 2-Butoxy-8-hydroxy-9-(2-methyl-3-pyridylmethyl)adenine

[0081] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material.

1 H NMR (DMSO-d<sub>6</sub>) δ 10.01 (1H, brs), 8.33 (1H, d, J = 3.1 Hz), 7.39 (1H, d, J = 6.4 Hz), 7.15 (1H, dd, J = 3.1, 6.4 Hz), 6.49 (2H, brs), 4.88 (2H, s), 4.10 (2H, t, J = 6.6 Hz), 2.59 (3H, s), 1.59 (2H, m), 1.34 (2H, m), 0.88 (3H, t, J = 7.3 Hz).

### Example 27: 2-Butylamino-8-hydroxy-9-(6-methyl-3-pyridylmethyl)adenine

15 [0082] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 9.78 (1H, s), 8.42 (1H, d, J = 2.2 Hz), 7.57 (1H, dd, J = 2.2, 8.0 Hz), 7.19 (1H, d, J = 8.0 Hz), 6.22 (1H, t, J = 7.1 Hz), 6.09 (2H, brs), 4.78 (2H, s), 3.16 (2H, m), 2.41 (3H, s), 1.44 (2H, m), 1.28 (2H, m), 0.87 (3H, t, J = 9.6 Hz).

# Example 28: 2-Butylamino-8-hydroxy-9-(2-methyl-3-pyridylmethyl)adenine

[0083] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 9.70 (1H, s), 8.32 (1H, d, J = 3.1 Hz), 7.37 (1H, d, J = 7.7 Hz), 7.14 (1H, dd, J = 3.1, 7.7 Hz), 6.20 (1H, t, J = 6.4 Hz), 6.0 (2H, brs), 4.82 (2H, s), 3.12 (2H, m), 2.60 (3H, s), 1.39 (2H, m), 1.25 (2H, m), 0.84 (3H, t, J = 7.1 Hz).

## Example 29: 2-Butylamino-9-(2-chloro-6-methyl-3-pyridylmethyl)-8-hydroxyadenine

[0084] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 9.74 (1H, brs), 7.33 (1H, d, J = 5.8 Hz), 7.22 (1H, d, J = 5.8 Hz), 6.24 (1H, m), 6.06 (2H, brs), 4.83 (2H, s), 3.09 (2H, m), 2.42 (3H, s), 1.37 (2H, m), 1.25 (2H, m), 0.82 (3H, t, J = 5.5 Hz).

### Example 30: 2-Butylamino-8-hydroxy-9-(6-hydroxy-3-pyridylmethyl)adenine

[0085] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{40}$  <sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 11.50 (1H, brs), 9.61 (1H, brs), 7.45 (1H, dd, J = 2.6, 9.5 Hz), 7.28 (1H, d, J = 2.6 Hz), 6.28 (1H, d, J = 9.5 Hz), 6.22 (1H, t, J = 6. 2 Hz), 6.00 (2H, brs), 4.53 (2H, s), 3.17 (2H, q, J = 6.2 Hz), 1.45 (2H, m), 1.30 (2H, m), 0.88 (3H, t, J = 7.3 Hz).

### Example 31: 8-Hydroxy-2-(2-methoxy)ethoxy-9-(3-pyridylmethyl)adenine

[0086] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.02 (1H, brs), 8.57 (1H, s), 8.48 (1H, d, J = 4.8 Hz), 7.70 (1H, d, J = 6.1 Hz), 7.36 (1H, dd, J = 4.8, 6.1 Hz), 6.50 (2H, brs), 4.90 (2H, s), 4.27 (2H, t, J = 4.6 Hz), 3.59 (2H, t, J = 4.6 Hz), 3.27 (3H, s).

# Example 32: 8-Hydroxy-2-methoxy-9-(3-pyridylmethyl)adenine

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[0087] The title compound was obtained in the same manner as in Example 1.  $^{1}$ H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.04 (1H, brs), 8.57 (1H, s), 8.48 (1H, d, J = 4.8 Hz), 7.71 (1H, d, J = 6.1 Hz), 7.35 (1H, dd, J = 4.8, 6.1 Hz), 6.53 (2H, brs), 4.90 (2H, s), 3.76 (3H, s).

# Example 33: 2-Butylamino-8-ethoxycarbonyloxy-9-(6-methoxy-3-pyridylmethyl)adenine

[0088] Triethylamine (100 μL, 0.75 mmol), ethyl chloroformate (67 μL, 0.70 mmol), and dimethylaminopyridine (20

mg, 0.17 mmol) were added to a solution (15 ml) of the compound (200 mg, 0.58 mmol) obtained in Example 19 in methylene chloride in that order, and the resultant was allowed to react at room temperature for 15 hours. Water was added to the reaction solution to extract an organic layer. The organic layer was washed with an aqueous solution of 5% citric acid and 10% saline solution and dried over anhydrous sodium sulfate. The solvent was then removed by distillation. Hexane was added to the residue, and the solid was precipitated, followed by collection by filtration. Thus, 170 mg of the title compound was obtained as a white powdery solid (yield: 71%).

 $^{1}$ H NMR (CDCl<sub>3</sub>)  $\delta$  8.33 (1H, d, J = 1.9 Hz), 7.75 (1H, dd, J = 1.9, 8.4 Hz), 6.15 (2H, brs), 6.67 (1H, d, J = 8.4 Hz), 4.87 (2H, s), 4.71 (1H, brt, J = 5.4 Hz), 4.46 (2H, q, J = 7.1 Hz), 3.90 (3H, s), 3.41-3.34 (2H, m), 1.60-1.35 (7H, m), 0.96 (3H, t, J = 7.3 Hz).

## Example 34: 2-Butylamino-9-(6-chloro-3-pyridylmethyl)-8-ethoxycarbonyloxyadenine

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[0089] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 17 and ethyl chloroformate.

 $^{15}$   $^{1}$ H NMR (CDCl<sub>3</sub>) δ 8.55 (1H, d, J = 2.4 Hz), 7.81 (1H, dd, J = 2.4, 8.4 Hz), 7.27 (1H, d, J = 8.4 Hz), 6.06 (2H, brs), 4.93 (2H, s), 4.83 (1H, brt, J = 5.5 Hz), 4.47 (2H, q, J = 7.1 Hz), 3.40-3.32 (2H, m), 1.59-1.36 (7H, m), 0.95 (3H, t, J = 7.3 Hz).

### Example 35: 2-Butylamino-8-isopropoxycarbonyloxy-9-(6-methoxy-3-pyridylmethyl)adenine

[0090] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 19 and isopropyl chloroformate.

<sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  8.32 (1H, d, J = 2.2 Hz), 7.74 (1H, dd, J = 2.2, 8.9 Hz), 6.68 (1H, d, J = 8.9 Hz), 6.08 (2H, brs), 5.23-5.13 (1H, m), 4.89 (1H, brt, J = 5.8 Hz), 4.87 (2H, s), 3.91 (3H, s), 3.42-3.35 (2H, m), 1.60-1.52 (2H, m), 1.48-1.37 (8H, m), 0.96 (3H, t, J = 7.3 Hz).

# <u>Example 36: 2-Butylamino-9-(6-chloro-3-pyridylmethyl)-</u>8-isopropoxycarbonyloxyadenine

[0091] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 17 and isopropyl chloroformate.

 $^{30}$   $^{1}$ H NMR (CDCl<sub>3</sub>)  $\delta$  8.55 (1H, d, J = 1.9 Hz), 7.80 (1H, dd, J = 1.9, 8.4 Hz), 7.27 (1H, d, J = 8.4 Hz), 6.14 (2H, brs), 5.24-5.14 (1H, m), 4.96-4.92 (3H, m), 3.40-3.33 (2H, m), 1.62-1.51 (2H, m), 1.45-1.34 (8H, m), 0.95 (3H, t, J = 7.3 Hz).

### Example 37: 2-Butoxy-8-ethoxycarbonyloxy-9-(6-methoxy-3-pyridylmethyl)adenine

35 [0092] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 2 and ethyl chloroformate.

 $^{1}$ H NMR (CDCl<sub>3</sub>) δ 8.33 (1H, d, J = 2.4 Hz), 7.75 (1H, dd, J = 2.4, 8.1 Hz), 6.68 (1H, d, J = 8.1 Hz), 6.15 (2H, brs), 4.93 (2H, s), 4.48 (2H, q, J = 7.1 Hz), 4.30 (2H, t, J = 6.6 Hz), 3.90 (3H, s), 1.83-1.72 (2H, m), 1.53-1.43 (5H, m), 0.98 (3H, t, J = 7.3 Hz).

### Example 38: 2-Butoxy-9-(6-chloro-3-pyridylmethyl)-8-ethoxycarbonyloxyadenine

[0093] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 1 and ethyl chloroformate.

<sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.56 (1H, d, J = 2.4 Hz), 7.81 (1H, dd, J = 2.4, 8.4 Hz), 7.29 (1H, d, J = 8.4 Hz), 7.28 (2H, brs), 4.99 (2H, s), 4.49 (2H, q, J = 7.0 Hz), 4.28 (2H, t, J = 6.6 Hz), 1.81-1.71 (2H, m), 1.52-1.43 (5H, m), 0.97 (3H, t, J = 7.3 Hz).

### Example 39: 2-Butoxy-9-(2-chloro-3-pyridylmethyl)-8-ethoxycarbonyloxyadenine

[0094] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 5 and ethyl chloroformate.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.37-8.35 (1H, m), 7.73-7.69 (1H, m), 7.41-7.37 (1H, m), 7.09 (2H, brs), 4.95 (2H, s), 4.39 (2H, q, J = 7.2 Hz), 4.12 (2H, t, J = 6.6 Hz), 1.61-1.53 (2H, m), 1.37-1.29 (5H, m), 0.87 (3H, t, J = 7.3 Hz).

### 55 Example 40: 2-Butoxy-8-methoxycarbonyloxy-9-(3-pyridylmethyl)adenine

[0095] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 8 and methyl chloroformate.

<sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  8.77 (1H, d, J = 2.2 Hz), 8.56-8.53 (1H, m), 7.85-7.81 (1H, m), 7.25 (2H, brs), 7.24-7.22 (1H, m), 5.02 (2H, s), 4.30 (2H, t, J = 6.6 Hz), 4.05 (3H, s), 1.82-1.72 (2H, m), 1.53-1.42 (2H, m), 0.97 (3H, t, J = 7.3 Hz).

### Example 41: 2-Butoxy-8-(n-pentyloxy)carbonyloxy-9-(3-pyridylmethyl)adenine

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[0096] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 8 and n-pentyl chloroformate.

<sup>1</sup>H NMR (DMSO- $d_6$ )  $\delta$  8.59 (1H, d, J = 1.9 Hz), 8.51-8.48 (1H, m), 7.75-7.72 (1H, m), 7.39-7.34 (1H, m), 7.07 (2H, brs), 4.92 (2H, s), 4.32 (2H, t, J = 6.6 Hz), 4.18 (2H, t, J = 6.5 Hz), 1.71-1.61 (4H, m), 1.41-1.31 (6H, m), 0.93-0.85 (6H, m).

# Example 42: 2-Butoxy-8-(cyclohexyloxy)carbonyloxy-9-(3-pyridylmethyl)adenine

[0097] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 8 and cyclohexyl chloroformate.

 $^{15}$   $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 8.60 (1H, d, J = 1.9 Hz), 8.51-8.49 (1H, m), 7.76-7.72 (1H, m), 7.39-7.35 (1H, m), 7.07 (2H, brs), 4.96-4.93 (3H, m), 4.18 (2H, t, J = 6.5 Hz), 1.86-1.58 (8H, m), 1.44-1.33 (6H, m), 0.91 (3H, t, J = 7.4 Hz).

### Example 43: 8-(Allyloxy)carbonyloxy-2-butoxy-9-(3-pyridylmethyl)adenine

[0098] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 8 and allyl chloroformate.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 8.61 (1H, d, J = 1.9 Hz), 8.51-8.49 (1H, m), 7.77-7.74 (1H, m), 7.39-7.35 (1H, m), 7.25 (1H, dd, J = 6.5, 13.8 Hz), 7.03 (2H, brs), 5.06 (1H, dd, J = 1.9, 13.8 Hz), 4.93 (2H, s), 4.86 (1H, dd, J = 1.9, 6.5 Hz), 4.19 (2H, t, J = 6.6 Hz), 1.64-1.41 (2H, m), 1.39-1.33 (2H, m), 0.91 (3H, t, J = 7.4 Hz).

### Example 44: 8-Acetyloxy-2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine

[0099] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 17 and acetic anhydride.

 $^{30}$  1H NMR (CDCl<sub>3</sub>) δ 8.56 (1H, d, J = 2.4 Hz), 7.80 (1H, dd, J = 2.4, 8.4 Hz), 7.30 (1H, d, J = 8.4 Hz), 7.28 (2H, brs), 5.00 (2H, s), 4.29 (2H, t, J = 6.5 Hz), 2.72 (3H, s), 1.82-1.71 (2H, m), 1.52-1.42 (2H, m), 0.97 (3H, t, J = 7.3 Hz).

### Example 45: 8-Propionyloxy-2-butoxy-9-(6-chloro-3-pyridylmethyl)adenine

35 **[0100]** The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 17 and propionyl chloride.

 $^{1}$ H NMR (CDCl<sub>3</sub>) δ 8.55 (1H, d, J = 2.4 Hz), 7.80 (1H, dd, J = 2.4, 8.1 Hz), 7.30 (1H, d, J = 8.1 Hz), 7.28 (2H, brs), 5.00 (2H, s), 4.29 (2H, t, J = 6.5 Hz), 3.14 (2H, q, J = 7.4 Hz), 1.82-1.71 (2H, m), 1.55-1.42 (2H, m), 1.23 (3H, t, J = 7.3 Hz), 0.97 (3H, t, J = 7.3 Hz).

### Example 46: 8-Benzoyloxy-2-butoxy-9-(6-methyl-3-pyridylmethyl)adenine

[0101] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 25 and benzoyl chloride.

<sup>45</sup> <sup>1</sup>H NMR (CDCl<sub>3</sub>) δ 8.64 (1H, d, J = 2.4 Hz), 7.77 (2H, d, J = 7.3 Hz), 7.69 (1H, dd, J = 2.4, 8.1 Hz), 7.63 (1H, t, J = 7.3 Hz), 7.49 (2H, t, J = 7.3 Hz), 7.09 (1H, d, J = 8.1 Hz), 5.76 (2H, brs), 4.95 (2H, s), 4.34 (2H, t, J = 6.6 Hz), 2.52 (3H, s), 1.78 (2H, m), 1.52 (2H, m), 0.99 (3H, t, J = 7.3 Hz).

## Example 47: 8-Benzoyloxy-2-butylamino-9-(6-methyl-3-pyridylmethyl)adenine

[0102] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 27 and benzoyl chloride.

<sup>1</sup>H NMR (CDCl<sub>3</sub>)  $\delta$  8.63 (1H, d, J = 2.0 Hz), 7.74 (2H, d, J = 7.4 Hz), 7.69 (1H, dd, J = 2.0, 7.9 Hz), 7.61 (1H, t, J = 7.4 Hz), 7.47 (2H, t, J = 7.4 Hz), 7.08 (1H, d, J = 7.9 Hz), 5.57 (2H, brs), 4.88 (2H, s), 4.84 (1H, t, J = 5.9 Hz), 3.40 (2H, m), 2.52 (3H, s), 1.58 (2H, m), 1.42 (2H, m), 0.97 (3H, t, J = 7.3 Hz).

### Example 48: 2-Butoxy-8-(4-methyl)benzoyloxy-9-(6-methyl-3-pyridylmethyl)adenine

[0103] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 25 and p-toluoyl chloride.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.44 (1H, s), 7.73 (2H, d, J = 8.2 Hz), 7.62 (1H, d, J = 8.0 Hz), 7.30 (2H, d, J = 8.2 Hz), 7.20 (1H, d, J = 8.0 Hz), 6.84 (2H, brs), 4.84 (2H, s), 4.22 (2H, t, J = 6.6 Hz), 2.42 (3H, s), 2.40(3H, s), 1.66 (2H, m), 1.41 (2H, m), 0.92 (3H, t, J = 7.4 Hz).

## Example 49: 2-Butylamino-8-(4-methyl)benzoyloxy-9-(6-methyl-3-pyridylmethyl)adenine

[0104] The title compound was obtained in the same manner as in Example 33 using the compound obtained in Example 27 and p-toluoyl chloride.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 8.43 (1H, s), 7.69 (2H, d, J = 8.2 Hz), 7.62 (1H, d, J = 8.0 Hz), 7.28 (2H, d, J = 8.2 Hz), 7.19 (1H, d, J = 8.0 Hz), 6.71 (1H, brs), 6.25 (2H, brs), 4.80 (2H, s), 3.22 (2H, t, J = 6.6 Hz), 2.42 (3H, s), 2.39(3H, s), 1.46 (2H, m), 1.30 (2H, m), 0.89 (3H, t, J = 7.4 Hz).

### Example 50: 2-Butylamino-8-hydroxy-9-(1-naphthylmethyl)adenine

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[0105] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 9.79 (1H, s), 8.39-8.41 (1H, m), 7.94-7.97 (1H, m), 7.83-7.86 (1H, m), 7.55-7.59 (2H, m), 7.40-7.46 (1H, m), 7.26 (1H, m), 6.17 (1H, t, J = 5.8 Hz), 6.05 (2H, s), 5.28 (2H, s), 3.09-3.16 (2H, m), 1.36-1.44 (2H, m), 1.21-1.29 (2H, m), 0.83 (3H, t, J = 7.4 Hz)

### Example 51: 2-Butylamino-8-hydroxy-9-(2-naphthylmethyl)adenine

[0106] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>) δ 9.69 (1H, s), 7.84-7.89 (3H, m), 7.74 (1H, s), 7.47-7.52 (3H, m), 6.21 (1H, t, J = 5.8 Hz), 6.03 (2H, s), 4.97 (2H, s), 3.12-3.20 (2H, m), 1.41-1.46 (2H, m), 1.22-1.31 (2H, m), 0.83 (3H, t, J = 7.4 Hz)

### Example 52: 2-Butoxy-8-hydroxy-9-(1-naphthylmethyl)adenine

[0107] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.21 (1H, s), 8.37-8.41 (1H, m), 7.85-7.98 (2H, m), 7.55-7.60 (2H, m), 7.41-7.47 (1H, m), 7.25-7.28 (1H, m), 6.52 (2H, s), 5.34 (2H, s), 4.10 (2H, d, J = 6.6 Hz), 1.55-1.61 (2H, m), 1.29-1.38 (2H, m), 0.87 (3H, t, J = 7.3 Hz)

### Example 53: 2-Butoxy-8-hydroxy-9-(2-naphthylmethyl)adenine

[0108] The title compound was obtained in the same manner as in Example 1 using a corresponding starting material. 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.12 (1H, s), 7.87-7.90 (3H, m), 7.76 (1H, s), 7.46-7.51 (3H, m), 6.45 (2H, s), 5.02 (2H, s), 4.14 (2H, d, J = 6.6 Hz), 1.55-1.63 (2H, m), 1.31-1.39 (2H, m), 0.88 (3H, t, J = 7.3 Hz)

## Example 54: 2-Butylamino-8-hydroxy-9-(5-chloro-2-thienylmethyl)adenine

[0109] The title compound was obtained in the same manner as in Example 11 using the compound obtained in Reference Example 5.

 $^{1}$ H NMR (DMSO-d<sub>6</sub>) δ 9.85 (1H, s), 6.96 (1H, d, J = 3.8 Hz), 6.91 (1H, d, J = 3.8 Hz), 6.23 (1H, t, J = 5.4 Hz), 6.07 (2H, s), 4.87 (2H, s), 3.15-3.23 (2H, m), 1.43-1.53 (2H, m), 1.24-1.37 (2H, m), 0.89 (3H, t, J = 7.3 Hz)

# Example 55: 2-Butylamino-8-hydroxy-9-(6-methyl-3-pyridylmethyl)adenine monosulfate

[0110] 0.5N sulfuric acid (30.8 ml) was added to a methanol solution (520 ml) of the compound of Example 27 (2.52 g, 7.70 mmol), and the precipitated crystal was collected by filtration. Thus, the title compound was obtained.

EP 1 386 923 A1

mp: 24	9-252°C			
Calc.	C 45.17,	H 5.45,	N 23.04,	S 7.54
Anal.	C 44.96,	H 5.56,	N 22.90,	S 7.53

Example 56: Interferon-inducing activity in mouse spleen cell (in vitro)

[0111] Spleen was extirpated from a C3H/HeJ mouse strain (male, 8 to 10 weeks old), and 2x106 cells/ml of a splenic cell suspension was prepared using MEM medium containing 5% FBS. The resulting suspension was fractionated to each well of a 24-well microplate in amounts of 0.5 ml each. Thereafter, a test compound (comprising 0.2% DMSO) that was diluted in the same medium was added to each well in amounts of 0.5 ml each, and culture was conducted in an incubator in the presence of 5%  $\rm CO_2$  at 37°C for 24 hours. The culture solution was aseptically filtered through a 0.2-μm filter to obtain a culture supernatant. The interferon titer in the culture supernatant was quantified by the bioassay described in J. A. Armstrong, Methods in Enzymology 78, 381-7. More specifically, 1x104 cells/50 µl of mouse fibroblasts, L929, were cultured in a 96-well culture plate for 24 hours, and 50 μl of diluted culture supernatant was added thereto, followed by culturing for an additional 24 hours. Subsequently, 100 µl each of vesicular stomatitis virus was added, and the cytopathogenic effect 44 hours after the virus infection was confirmed by crystal violet staining. Quantification was carried out by dissolving the dye with the aid of an aqueous solution of 2% sodium deoxycholate and assaying the absorbance at 595 nm. 9-Benzyl-2-butylamino-8-hydroxyadenine (a compound described in Example 24 of WO 99-28321) as Reference Compound 1, 9-benzyl-2-butoxy-8-hydroxyadenine (a compound described in Example 19 of WO 99-28321) as Reference Compound 2, R-837 (Imiquimod) as Comparative Example 1, and R-848 (1-(2-hydroxy-2-methylpropyl)-2-methoxyethyl-1H-imidazo[4,5-c]quinoline-4-amine) as Comparative Example 2 were used. Table 2 shows the minimum effective concentration of each compound.

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Table 2

		Int	terferon-inducing activity
Compound	Minimum effective concentration (nM)	Compound	Minimum effective concentration (nM)
Example 1	1	Example 18	10
Example 2	1	Example 19	3
Example 3	1	Example 20	30
Example 4	10	Example 21	3
Example 5	3	Example 22	10
Example 6	1	Example 23	10
Example 7	1	Example 24	3
Example 8	1	Example 25	1
Example 9	3	Example 26	1
Example 10	10	Example 27	3
Example 11	3	Example 28	10
Example 12	10	Example 29	10
Example 13	3	Reference Compound 1	100
Example 14	1	Reference Compound 2	1
Example 15	1	Comparative Example 1	300
Example 16	1	Comparative Example 2	3
Example 17	3		

# Example 57: Interferon-inducing activity in mouse (in vivo)

**[0112]** A test compound was suspended in an aqueous solution of 0.5% carboxymethylcellulose, and the resulting suspension was orally administered to a Balb/c male mouse. Two hours later, blood was sampled from its heart, and the interferon titer in blood serum was assayed in the same manner as in Example 56. Table 3 shows the results.

Table 3

Interferon-inducing activity (U/ml)						
			age (mg/kg)	, ,		
	0.01	0.03	0.1	0.3		
Example 1		123±87	322±95	623±32		
Example 2	25±17	388±87	1211±263	2559±495		
Example 3			353±73	1966±532		
Example 5			133±33	473±9		
Example 6			569±42	1222±248		
Example 7			347±149	845±22		
Example 8	13±5	167±97	725±141	936±438		
Example 9				539±107		
Example 10		89±22	409±267	733±256		
Example 11			279±177	568±160		
Example 12				31±5		
Example 13				304±138		
Example 14				570±63		
Example 15			52±32	603±147		
Example 16			251±46	716±155		
Example 17		31±23	183±43	999±379		
Example 18				94±49		
Example 19	14±5	199±84	383±122	601±187		
Example 21		15±8	290±134	571±164		
Example 22			21±9	332±83		
Example 23			42±7	414±118		
Example 24				403±146		
Example 25	65±52	151±29	753±140	721±299		
Example 26		121±11	433±366	780±190		
Example 27		14±3	324±66	804±274		
Example 28			186±62	1462±260		
Example 29				619±268		
Reference Compound 1			55±25	275±165		
Reference Compound 2		60±40	186±42	317±160		
Comparative Example 2			1638±246	1961±950		

### Example 58: Interferon-inducing activity in cynomolgus monkey (in vivo)

[0113] A test compound was suspended in an aqueous solution of 0.5% carboxymethylcellulose, and 10 mg/kg of the resulting suspension was orally administered to a group of five male cynomolgus monkeys. Blood was sampled with the elapse of time, and the interferon titer in blood serum was assayed in the same manner as in Example 56. The interferon titers in blood serum four hours after the administration (average  $\pm$  SE) were 13,876 $\pm$ 825 U/ml in the compound of Example 17, 12,173 $\pm$ 6619 U/ml in the compound of Example 19, 14,488 $\pm$ 6365 U/ml in the compound of Example 27, and 18,305 $\pm$ 5578 U/ml in the compound of Reference Example 2. These results indicate that interferon-inducing activity of each case was substantially the same. While vomition was observed in 4 out of 5 samples in the compound of Reference Example 2, no vomition was observed in any sample in the case of the compound according to the present invention.

### Example 59: Interferon-inducing activity in human peripheral blood mononuclear cells (PBMC)

[0114] Peripheral bloods were sampled from 5 healthy volunteers using a syringe containing heparin, and peripheral blood mononuclear cells (PBMC) were prepared by density gradient centrifugation utilizing the Lymphoprep™ (NY-COMED PHARMA AS). PBMCs were washed twice in serum-free RPMI 1640 medium and adjusted at 1x10<sup>6</sup> cells/ml in RPMI 1640 medium comprising 10% fetal bovine serum. The product was cultured in the presence of a test compound dissolved in dimethyl sulfoxide (final concentration: 0.1%) in an incubator in the presence of 5% CO<sup>2</sup> at 37°C for 24 hours. As a control, 0.1% dimethyl sulfoxide containing no test compound was used. The culture supernatant was aseptically collected by filtration. Thereafter, the supernatant was cryopreserved at -20°C or lower until it was subjected to the assay for IFN-inducing activity. Human IFN-α in the culture supernatant was quantified using a highly sensitive ELISA system (Amersham). Table 4 shows the results, wherein (-) indicates a detection limit (1.25 pg/ml) or lower and NT refers to "not tested."

Table 4

Interferon-inducing activity (pg/ml)							
		Concentration (nM)					
	0.3	1	3	10	30		
Example 17	NT	5±3	17±17	50±33	61±38		
Example 19	NT	5±1	12±11	48±34	60±33		
Example 25	7±3	28±24	46±34	NT	NT		
Example 27	NT	6±3	26±22	56±37	59±33		
Comparative Example 2	-	-	6±5	NT	NT		
Reference Compound 2	NT	-	7	23±22	64±40		

Example 60: Inhibitory activity against Th2 cytokine produced from sensitized spleen cells

[0115] A 7-week-old BALB/c mouse was immunized intraperitoneally with aluminum hydroxide gel (4 mg, 100  $\mu$ l) having 10  $\mu$ g of ovalbumin adsorbed thereon, and it was subjected to additional immunization with the same agent 14 days later. Seven days thereafter, spleen was taken out, and suspended in RPMI-1640 comprising inactivated fetal bovine serum (10%), 2-mercaptoethanol (50  $\mu$ l), penicillin G (100 U/ml), and streptomycin (100  $\mu$ g/ml). Thus, a splenic cell suspension was prepared. Ovalbumin (0.5 mg/ml) and a test compound were added to a splenic cell suspension (5x10<sup>6</sup> cell/200  $\mu$ l/well), and the resultant was cultured at 37°C in the presence of 5% CO<sub>2</sub> for 3 days. The cytokine level in the culture supernatant was quantified by ELISA. IFN- $\gamma$  and IL-4 were assayed using a kit available from Amersham, and IL-5 was assayed using a kit available from Endogen. Table 5 shows the results.

Table 5

Inhibitory activity against IL-4 production (% of control)					
	Concentration (nM)				
	0.1 1 10 100				
Example 1	98	7	2	<1	

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Table 5 (continued)

Inhibitory activity against IL-4 production (% of control)				
	Co	oncentra	ation (n	M)
	0.1	1	10	100
Example 2	96	4	<1	<1
Example 10	-	54	3	<1
Example 17	-	40	<1	<1
Example 19	-	32	<1	<1
Example 20	-	106	23	2
Example 21	-	53	1	<1
Example 22	-	88	9	1
Example 25	86	2	<1	<1
Example 27	-	30	1	<1
Comparative Example 1	-	18	1	< 1
Comparative Example 2	90	24	1	<1
Reference Compound 1	-	-	109	24
Reference Compound 2	107	48	1	<1

Inhibitory activity against IL-5 production (% of control)					
	Co	oncentra	ation (n	M)	
	0.1	1	10	100	
Example 1	116	41	16	15	
Example 2	98	37	14	12	
Example 10	-	91	32	15	
Example 17	-	77	24	10	
Example 19	-	83	16	13	
Example 20	-	106	71	19	
Example 21	-	97	23	15	
Example 22	-	115	50	18	
Example 25	102	31	13	13	
Example 27	-	68	20	12	
Comparative Example 1	-	54	15	10	
Comparative Example 2	106	73	18	10	
Reference Compound 1	-	-	92	69	
Reference Compound 2	99	79	16	11	

Example 61: Gastrointestinal absorption in rat

[0116] A test compound was suspended in an aqueous solution of 0.5% carboxymethylcellulose, and the resulting suspension was orally administered to an SD male rat. Blood was sampled with the elapse of time, and the level of the drug in blood was assayed by HPLC. The following table shows the Cmax and Tmax values.

Table 6

Cmax and Tmax			
	Dose (mg/kg)	Cmax (ng/ml)	Tmax (hr)
Example 17	3	310	1
Example 19	3	188	4
Hydrochloride of Example 25	3 10	18 150	1 0.25
Example 27	3	565	0.5
Comparative Example 1	3	90	0.5
Comparative Example 2	3 10	19 15	1 0.5

# Example 62: Solubility

**[0117]** 5.53% citric acid (monohydrate) and 1.75% disodium phosphate (anhydrous) were mixed together to prepare buffers (pH 2.5, 5.5, 7.4). A compound was added thereto, the mixture was stirred in a vortex mixer and subjected to ultrasonication for 30 minutes. Thereafter, the resultant was stirred in a vortex mixer again and then centrifuged at 15,000 rpm for 20 minutes. The levels of the compounds in the supernatants were then quantified by HPLC. The following table shows these concentration levels.

Table 7

(μg/ml)			(μg/ml)
	pH 2.5	pH 5.5	pH 7.4
Example 8	784	20	18
Example 9	350	4	3
Example 10	34	15	10
Example 15	140	1	< 1
Example 16	293	NT	NT
Example 19	130	2	2
Example 20	8,813	NT	NT
Example 21	15,000	45	64
Example 22	> 80,000	73	16
Example 24	27,000	22	1
Example 25	> 1,000	5	3
Example 26	> 1,000	6	3
Example 27	610	5	2
Example 28	> 1,000	8	4
Example 31	> 1,000	353	322
Example 32	> 1,000	82	25
Reference Compound 1	26	< 1	< 1
Reference Compound 2	2	< 1	< 1

Example 63: Medicinal effect of the compound of Example 27 in a rat model of eosinophil leukocytic infiltration

[0118] A rat was immunized intraperitoneally with 1 ml of a solution containing 1 mg of ovalbumin (OVA) and 100

mg of  $Al(OH)_3$  on day 0 and day 7. On day 14, a 1% OVA solution was sprayed for 15 minutes using a ultrasonic nebulizer to induce reactions. A test compound was administered intratracheally 2.5 hours before the induction. Bronchoalveolar lavage was performed 24 hours after the induction, and eosinocytes in the wash was stained with Hinkelman to count the number of stained cells. Sensi.-/Challe.+, CMC-Na, and Fluticasone were used as controls. Fig. 1 and the following table show the results.

Table 8

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	x 10 <sup>4</sup> cells		
Compound (intratracheal administration)	Average	Standard deviation	Standard error
Sensi/Challe.+	26.22	15.60	6.37
CMC-Na	319.55	281.89	115.08
Example 27 (0.001 mg/kg)	383.85	392.01	160.04
Example 27 (0.01 mg/kg)	186.77	161.86	66.08
Example 27 (0.1 mg/kg)	46.84	51.84	21.16
Fluticasone (0.01 mg/kg)	300.07	231.84	94.65

Example 64: Medicinal effect of the compound of Example 17 in a mouse model of active cutaneous anaphylaxis

[0119] A mouse was immunized intraperitoneally with 500  $\mu$ l of a solution containing 2  $\mu$ g of ovalbumin (OVA) and 5 mg of Al(OH)<sub>3</sub> on day 0. On day 14, 20  $\mu$ l of 1 mg/ml OVA solution was intradermally injected in the left auricle under ether anesthesia to induce the reaction. A test compound was applied to both surfaces of the left auricle in amounts of 10  $\mu$ l each 2 hours before the induction. The thickness of the auricle was measured using a micrometer 24 hours after the induction. Acetone was used as a control. Fig. 2 and the following table show the results.

Table 9

	Ear swelling (mm)			
Compound	Average	Standard deviation	Standard error	
Acetone	0.034	0.021	0.009	
Example 17 (4 μg/ear)	0.046	0.024	0.010	
Example 17 (40 μg/ear)	0.048	0.013	0.005	
Example 17 (400 μg/ear)	0.014	0.008	0.003	

Example 65: Antitumor effect of the compound of Example 27 in tumor-bearing mouse model

[0120] Murine renal adenocarcinoma-derived Renca cells (obtained from Iwate Medical University) were intradermally transplanted to the left ventral portions of 6-week-old BALB/c male mice (Charles River Japan, Inc.) at  $5x10^4$  cells/0.05 ml/mouse. Their body weights were measured on the next day, and they were divided into 5 groups (each group comprising 6 mice) in such a manner that the average body weights were substantially the same among groups. Vehicles (an aqueous solution of 0.5% carboxymethylcellulose (hereinafter referred to as "CMC-Na")) and the compound of Example 27 (1 mg/kg and 3 mg/kg) were forcibly administered orally using an oral Sonde (10 ml/kg). Mouse interferon  $\alpha$  (hereinafter referred to as "mIFN- $\alpha$ ") was intradermally administered to mice through their backs in amounts of  $1x10^4$  U/0.1 ml and  $5x10^4$  U/0.1 ml per mouse. Administration was carried out 5 times every 4 days. The longer diameter (L, mm) and the shorter diameter (W, mm) of the generated tumors were measured twice a week, and the tumor volumes (V, mm³) were calculated (V=L×W²). Also, significant difference was examined in accordance with Steel's multiple comparison. The SAS system for Windows Release 8.01 (SAS Institute Inc., Cary, NC, U.S.A.) was used for the examination.

[0121] A surveillance period of about 30 days after the transplantation was provided, the tumor volume and the body weight were monitored, and an antitumor effect against the Renca cells was evaluated. The average tumor volume (n = 6) of each agent was compared with those of cases involving vehicle administration. The results thereof are shown in Fig. 3. As a result, the tumor volume in the groups to which the compound of Example 27 and mIFN- $\alpha$  were administered was significantly smaller than that in the group to which vehicles had been administered (P < 0.05). Adminis-

tration of the compound of Example 27 was found to exhibit the antitumor effect equivalent to or higher than that attained by the administration of mIFN- $\alpha$ .

Example 66: Antitumor effect of the compound of Example 27 in a mouse model of spontaneous metastasis (inhibitory effect against metastasis)

[0122] OV2944-HM-1 cells (obtained from Hiroshima University) derived from mouse ovarian cancer that is highly metastatic to the lymph nodes were intradermally transplanted to the buttocks of 6-week-old B6C3F1 female mice (Charles River Japan, Inc.) in amounts of  $1\times10^6$  cells/0.05 ml/mouse. Ten days after the transplantation, the primary tumor was excised under Nembutal anaesthesia. Adhesives (Aron Alpha) were applied to the excised portions, and the stumps were sewed up with wound clips. The next day, body weights were measured, and they were divided into 3 groups (each group comprising 6 mice) in such a manner that the average body weights among groups were substantially the same. Vehicles (aqueous solutions of 0.5% CMC-Na) and the compound of Example 27 (3 mg/kg) were forcibly administered orally using an oral Sonde (10 ml/kg). Also,  $5\times10^4$  U/0.1 ml/mouse of mlFN- $\alpha$  was intradermally administered through their backs. Administration was carried out 5 times every 4 days. Regional lymph nodes (mouse cervical, brachium, axillary cavity) were extirpated 35 days after the transplantation, and their wet weights were measured. Simultaneously, lungs were extirpated to visually inspect the metastasis. Also, significant difference was examined in accordance with Steel's multiple comparison. The SAS system for Windows Release 8.01 (SAS Institute Inc., Cary, NC, U.S.A.) was used for the examination.

[0123] As shown in Fig. 4, the largest metastatic focus was the mouse cervical lymph node located close to the primary tumor, followed by the axillary cavity lymph node and brachium lymph node. The weight of each metastasis lymph node of the group to which the compound of Example 27 was administered was smaller than those attained from the group to which vehicles were administered. This indicates that the compound of Example 27 exhibits a metastasis-inhibiting effect. The HM-1 cells exhibit not only lymph node metastasis but also highly frequent pulmonary metastasis. Thus, pulmonary metastasis was examined. As shown in the table below, pulmonary metastasis was observed in 5 out of 6 mice in the group to which vehicles had been administered based on visual inspection; however, it was not observed at all with the administration of the compound of Example 27. This indicates that the compound of Example 27 can potently inhibit pulmonary metastasis in addition of its ability to inhibit lymph node metastasis. In contrast, mIFN- $\alpha$  did not inhibit lymph node metastasis, and the frequency of pulmonary metastasis was the same as that attained in the group to which vehicles had been administered.

Table 10

	The number of mice which exhibited pulmonary metastasis in 6 mice	
Vehicle	5	
Mouse interferon α	5	
Compound of Example 27	0	

Example 67: Preparation Example

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[0124] Tablets having the following composition were produced in accordance with a conventional technique.

Compound of Example 25	10 mg
Lactose	600 mg
Starch	250 mg
Hydroxypropylcellulose	30 mg
Calcium stearate	5 mg

Example 68: Preparation Example

[0125] Solid dispersants having the following composition were produced in accordance with a conventional technique.

Compound of Example 27	20 mg
Nikkol (surfactant)	5 mg

### (continued)

Hydroxypropylcellulose	200 mg
Methanol	2 ml
Dichloromethane	2 ml

[0126] All publications cited herein are incorporated herein by reference in their entirety.

### Industrial Applicability

[0127] The adenine derivative according to the present invention has selective and significant interferon-inducing activity. The adenine derivative according to the present invention accelerates interferon secretion in living organisms, and thus, is useful for prevention or treatment of, for example, viral diseases such as hepatitis B, hepatitis C, or AIDS or cancerous diseases for which interferon is effective. The adenine derivative according to the present invention is of low molecular weight. Accordingly, it can be orally administered, unlike interferon preparations. In addition, the adenine derivative according to the present invention is a compound having excellent water solubility and high gastrointestinal absorption. Further, the adenine derivative according to the present invention selectively inhibits the production of inflammatory cytokines such as IL-4 or IL-5 that are discharged from Th2 cells. Accordingly, it is useful as a preventive or therapeutic agent for diseases such as asthma or atopic dermatitis with which Th2 cells are deeply involved.

### Claims

1. An adenine derivative, a tautomer thereof, or a pharmaceutically acceptable salt thereof represented by general formula (I):

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wherein X represents NR³ (wherein R³ represents a hydrogen atom or  $C_{1-3}$  alkyl), an oxygen atom, or a sulfur atom; R¹ represents substituted or unsubstituted alkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl, or substituted or unsubstituted heteroaryl; R² represents hydroxyl, mercapto,  $C_{1-8}$  acyloxy, or  $C_{2-8}$  alkoxycarbonyloxy; and Y represents a substituted or unsubstituted naphthalene ring, a substituted or unsubstituted 5- or 6-membered monocyclic aromatic hetero ring containing 1 or 2 hetero atoms selected from the group consisting of nitrogen, oxygen, and sulfur atoms, or a substituted or unsubstituted fused bicyclic aromatic hetero ring containing 1 or 2 hetero atoms selected from the group consisting of nitrogen, oxygen, and sulfur atoms.

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- 2. The compound according to claim 1, wherein, in general formula (I),  $R^1$  represents  $C_{1-8}$  alkyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkenyl,  $C_{2-8}$  alkoxyalkyl,  $C_{1-8}$  hydroxyalkyl, aryl, heteroaryl, aralkyl, or heteroarylalkyl.
- 3. The compound according to claim 1, wherein, in general formula (I), R1 represents C<sub>1-6</sub> alkyl.
- 4. The compound according to claim 1, wherein, in general formula (I), X represents NH.
- 5. The compound according to claim 1, wherein, in general formula (I), X represents an oxygen atom.
- 6. The compound according to claim 1, wherein, in general formula (I), Y represents a unsubstituted or substituted pyridine ring or a substituted or unsubstituted pyrazine ring.

- 7. The compound according to claim 1, wherein, in general formula (I), Y represents a unsubstituted or substituted naphthalene ring or a substituted or unsubstituted thiophene ring.
- 8. The compound according to claim 1, wherein, in general formula (I), Y has 1 to 4 substituents when Y is a pyridine ring, and 1 to 3 substituents when Y is a pyrazine ring at any positions, wherein the substituent is selected from the group consisting of C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, hydroxyl, mercapto, C<sub>1-4</sub> alkylthio, a halogen atom, amino, C<sub>2-8</sub> dialkylamino, C<sub>1-4</sub> monoalkylamino, pyrrolidinyl, piperidino, and morpholino.
- 9. The compound according to claim 1, wherein, in general formula (I), Y represents a pyridine ring which may have a substituent selected from the group consisting of C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, hydroxyl, mercapto, C<sub>1-4</sub> alkylthio, a halogen atom, amino, C<sub>2-8</sub> dialkylamino, C<sub>1-4</sub> monoalkylamino, pyrrolidinyl, piperidino, and morpholino; R¹ represents C<sub>1-6</sub> alkyl; and R² represents hydroxyl.
  - 10. The compound according to claim 9, wherein X represents NH or an oxygen atom.

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- 11. A pharmaceutical comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
- 12. An interferon inducer comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
- 13. An antiviral agent comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
  - 14. An anticancer agent comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
- 15. A type 2 helper T cell selective immune response inhibitor comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
  - 16. An antiallergic agent comprising, as an active ingredient, the compound according to any one of claims 1 to 10.
- 17. An immune response modulator comprising, as an active ingredient, the compound according to any one of claims 1 to 10.

Fig. 1

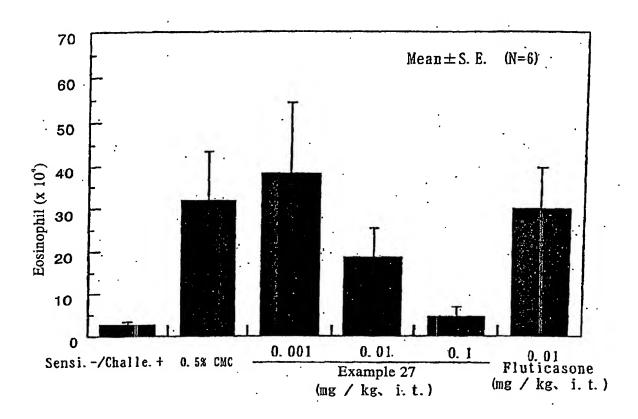


Fig. 2

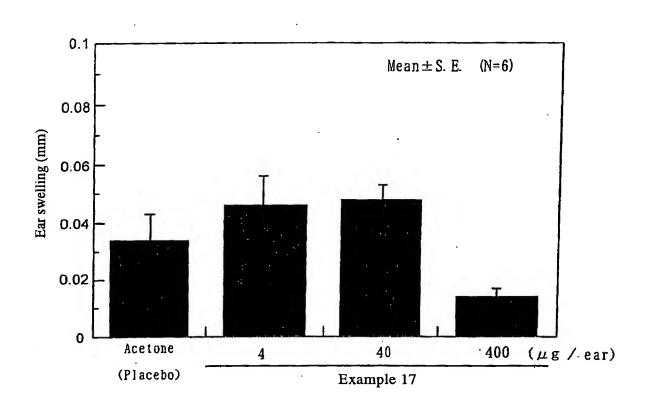
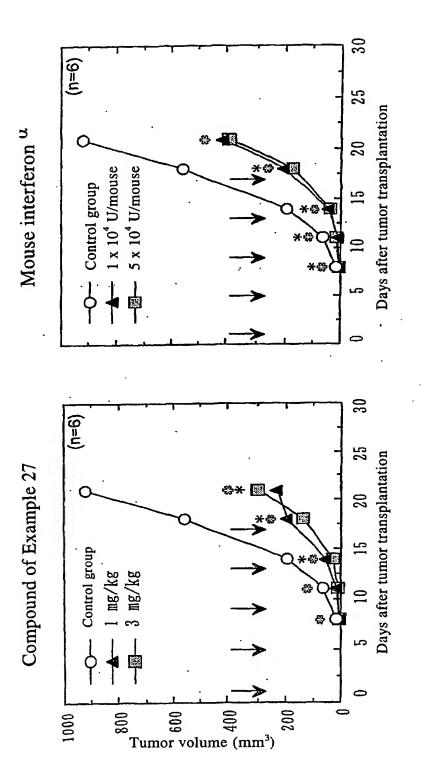
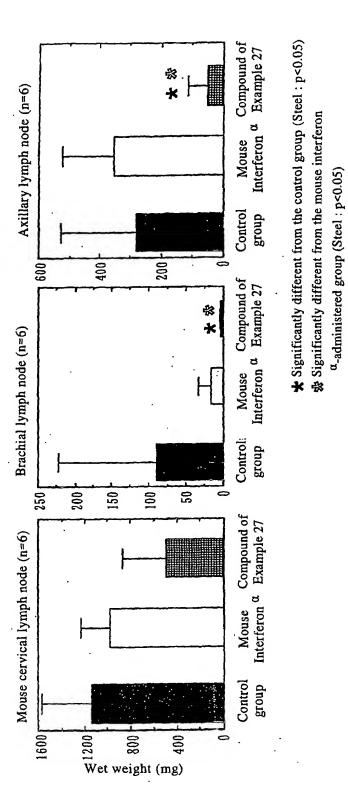


Fig. 3



\* Significantly different from the control group (Steel: p<0.05)

Fig. 4



# INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP02/03727

		<b></b>			
	A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C07D473/16, 473/18, 473/24, A61K31/52, A61P11/06, 17/00, 31/12, 31/18, 31/20, 35/00, 37/02, 37/06, 37/08, 43/00				
According t	o International Patent Classification (IPC) or to both n	ational classification and IPC	·		
	S SEARCHED				
Minimum d Int.	ocumentation searched (classification system followed C1 <sup>7</sup> C07D473/16, 473/18, 473/2	by classification symbols) 4, A61K31/52			
	tion searched other than minimum documentation to th				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) REGISTRY (STN), CAPLUS (STN), CAOLD (STN)					
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a		Relevant to claim No.		
A			1-17		
А	JP 11-193282 A (Sumitomo Pha Ltd.), 21 July, 1999 (21.07.99), (Family: none)	1-17			
A	JP 48-16519 B1 (Tanabe Seiya 22 May, 1973 (22.05.73), (Family: none)	ku Co., Ltd.),	1-3		
Furth	er documents are listed in the continuation of Box C.	See patent family annex.			
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